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Forest Wildlife Habitat Statistics for Maine 1982

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Abstract

A statistical report on the first forest wildlife habitat survey of Maine (1982). Eighty-five tables show estimates of forest area and several attributes of forest land wildlife habitat. Data are presented at two levels: state and geographic sampling unit.

Foreword

The inventory of Maine was directed by Joseph E. Barnard, Project Leader of the Forest Inventory and Analysis unit. Charles T. Scott, Douglas S. Powell, and Robert T. Brooks were responsible for the design of the inventory and sample selection. John R. Peters supervised the aerial-photo interpretation and data collection by the field crews. He was assisted by David J. Alerich, Thomas B. Hartman, Joseph G. Reddan, Karen J. Sykes, Edward H. Uebler, and Richard H. Widmann. Numerous temporary employees participated in the collection of field data.

The Maine Forest Service, Department of Conservation, provided supplemental funding to intensify the reinventory and assisted significantly with the planning, data collection, and analysis of the inventory. Kenneth Hendren and James Rea provided continuing assistance on behalf of the Maine Forest Service in all of these activities. John Ferwerda and Robert Joslin of the U.S. Department of Agriculture, Soil Conservation Service, provided technical guidance on several aspects of the data collection and assigned a soil series designation to each field plot.

David R. Dickson, Thomas S. Frieswyk, and Nancy M. Veronesi applied FINSYS (Forest INventory SYStem), a generalized data processing system, to the specific data needs of the Maine inventory, and produced summary tables for the state and geographic sampling units. Thomas W. Birch and Richard H. Widmann were instrumental in assuring that the area estimates were consistent with those from the two previous inventories. Anne M. Malley assisted in various data processing capacities and prepared and balanced the statistical tables in this report.

Carmela M. Hyland was responsible for administrative and secretarial services. Marie Pennestri typed the text for this report.

Cover photo: Courtesy of Maine Department of Inland Fisheries and Wildlife.

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Introduction

The USDA Forest Service inventories of the forest resources of the Nation are authorized by the Renewable Resources Planning Act (RPA) of 1974 and the Renewable Resources Research Act of 1978. These inventories are conducted periodically in each state. Two previous inventories were conducted in Maine and the results were reported by Ferguson and Longwood (1960) and Ferguson and Kingsley (1972). This report presents the forest habitat resource data from the third inventory, which was conducted in 1980-82. This inventory involved a cooperative effort of the Maine Forest Service, Department of Conservation, the U.S. Soil Conservation Service, and the Northeastern Forest Experiment Station. The Forest Inventory and Analysis project at the Northeastern Forest Experiment Station conducted the inventory on all of the forest land, developed the summaries of resource data, and prepared this report.

The 1980-82 habitat inventory conducted by the Forest Inventory and Analysis project followed a sampling procedure that utilized aerial photography and new ground sample locations. In Maine this required the classification of 62,801 points on aerial photographs into land-use and cubic-foot volume classes, and the establishment of 2,475 new ground measurement locations as a subsample of the photo points. The data collected were summarized according to the Sampling with Partial Replacement (SPR) design by the FINSYS computer system developed by the Northeastern Forest Experiment Station. A field manual describing the measurement procedures in detail is available upon request.

The statistics shown in this report summarize information collected. Other information or additional summaries may be developed. For additional publications or more resource data, contact the Forest Inventory, Analysis, and Economics Project, USDA Forest Service, 370 Reed Road, Broomall, PA 19008 (phone 215-461-3037) or Director, Maine Department of Inland Fisheries and Wildlife, 284 State Street, Augusta, ME 04333 (phone 207-289-3286)

This report is the first in a continuing series of state-by-state wildlife habitat resource bulletins. The format used was chosen to expeditiously report on the Forest Inventory and Analysis habitat survey. It is our intent to write additional publication(s) that will include detailed analyses and interpretation of the habitat survey.

Forest Inventory reports are appropriate for regional (that is, large county or multi-county and larger areas) applications. The information in the publications is useful to resource professionals concerned with planning and policy formulation for extensive areas of forest land. Use the information for site-specific applications only as background standards for comparisons to the site conditions.

Example Application

The habitat report, used in conjunction with the timber (Powell and Dickson 1984) and ownership (Birch 1986) reports, provides a detailed description of the forest land of Maine. From these reports, a user can select tables that collectively describe a specific habitat resource.

Exhibit 1 describes the condition of regional white-tailed deer (Odocoileus virginianus) habitat by Forest Inventory, Analysis and geographic survey units (Fig. 1). The information selected serves to illustrate the process of habitat evaluation using forest inventory information. The process can be duplicated for other wildlife species by using data that represent components of their habitat.

In this exhibit, the percentage of total land area in forest/nonforest and edge indices is a measure of forest landscape diversity. Nonforest lands, in particular agricultural lands, can be an important component of deer habitat. As this survey is of forested lands, it would be inappropriate to characterize nonforested land resources. Users of this report are advised to secure supplemental, comparable information on nonforested lands for a more complete habitat evaluation. Generally, the greater the diversity of land use, the better the habitat conditions for deer. The percentage of timberland in

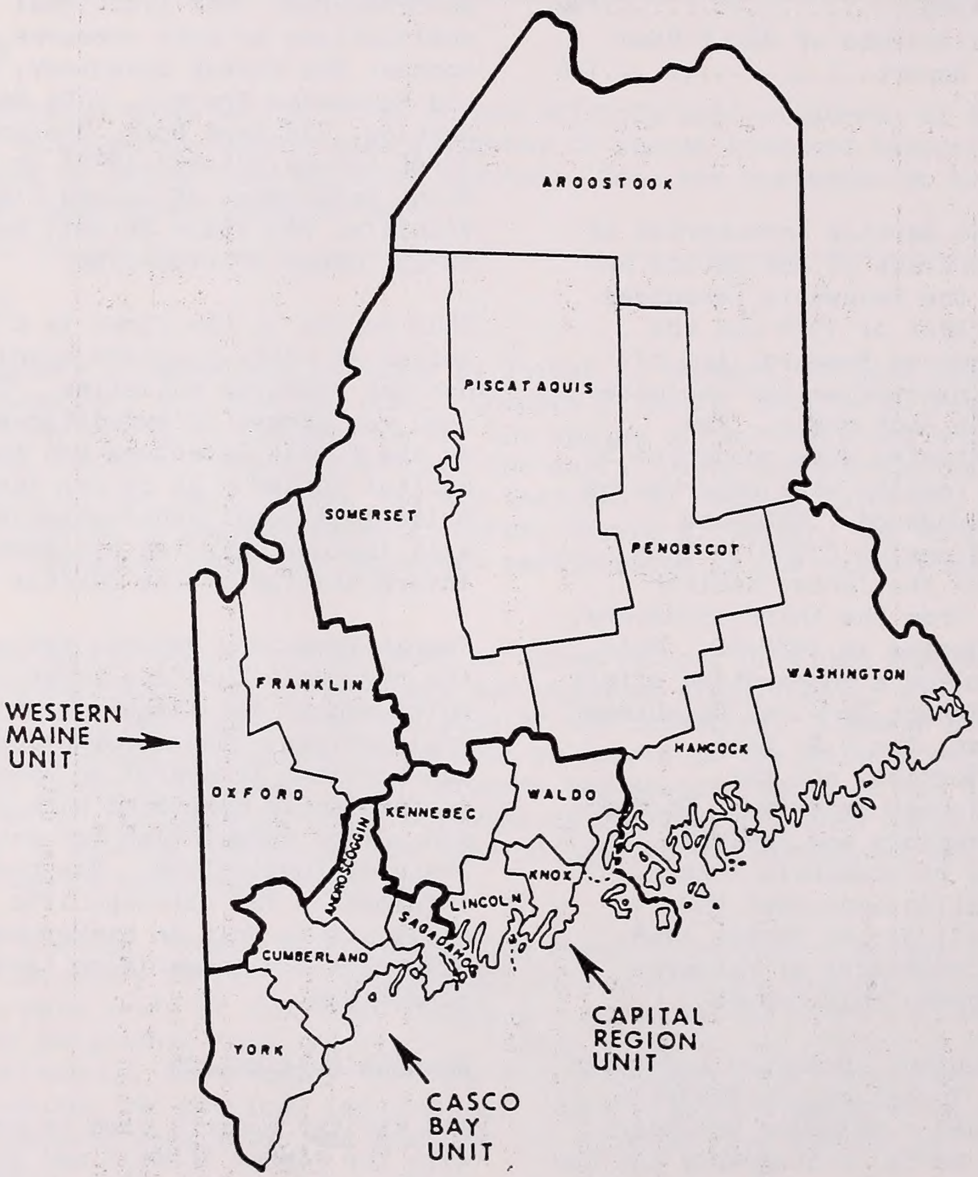

Figure 1.--Map of Maine showing county and/or geographic sampling unit boundaries.

Exhibit 1

Selected habitat components that collectively describe the condition of white-tailed deer habitat, by geographic unit, Maine, 1982

Habitat component	Aroostook County	Capital Region	Casco Bay	Hancock County	Penobscot County	Piscataquis County	Somerset County	Washington County	Western Maine	All units
Percent total area (Table 1)										
Forest land	88.6	76.1	75.9	85.2	88.5	96.6	93.3	91.5	93.1	88.8
Nonforest land	11.4	23.9	24.1	14.8	11.5	3.4	6.7	8.5	6.9	11.2
Edge indices (Table 2)										
Total	30.3	41.9	45.3	27.2	26.7	16.9	32.2	30.0	28.0	32.6
Sum Forest and Shrub	18.1	21.9	22.8	15.5	14.0	10.6	18.5	19.3	17.2	18.2
Percent timberland area (Table 4 and Unit Tables)										
Sawtimber, conifer types	36.3	30.7	41.3	33.9	34.3	39.1	31.6	26.9	21.5	33.0
Sapling/seedling	10.4	12.2	12.0	14.5	6.6	12.8	10.2	20.0	8.2	11.2
Stands less than 100 acres (Table 6)	58.7	80.2	86.3	61.5	47.9	37.7	30.2	78.9	38.2	53.5
Mast potential - trees per acre timberland (Table 7 and Unit Tables)										
Beech	8.5	7.2	5.7	6.4	15.6	10.3	9.3	5.8	10.4	9.3
Oak	t[a]	12.2	23.7	1.0	0.7	0.1	0.4	0.9	4.1	3.4
Browse potential - thousand sapling, seedling, and shrub stems per acre timberland (Table 13 and Unit Tables)										
Readily browsed	1.9	0.8	1.0	0.7	1.8	2.1	2.1	1.0	2.7	1.8
Commonly browsed	6.9	5.0	4.5	8.3	7.1	7.7	6.4	7.1	5.1	6.5
Infrequently browsed	0.8	1.2	1.6	2.5	1.6	1.1	1.1	4.1	0.6	1.4
Questionable species	0.5	0.2	0.2	0.1	t	0.2	0.2	t	0.3	0.2
Total	10.7	8.2	8.5	12.8	11.2	11.7	10.2	14.4	9.1	10.7
Browse potential - percent with observed browse use (Table 13 and Unit Tables)										
Readily browsed	23.5	23.4	12.9	16.3	15.8	37.7	22.3	23.2	36.2	26.5
Commonly browsed	15.1	11.3	11.9	24.2	8.6	17.2	12.8	27.8	16.9	15.9
Infrequently browsed	8.5	19.1	12.8	16.8	4.0	7.0	5.9	14.1	19.5	11.2
Questionable species	2.3	7.7	22.6	0.0	0.0	0.8	1.4	10.3	6.2	4.2
Total	16.5	15.2	12.8	23.1	9.5	20.3	13.9	23.1	22.5	17.4

[a] t = Trace amount, less than 0.1.

sawtimber, conifer forest types is a measure of winter range availability. The percentage of timberland in sapling/seedling forest cover is related to the availability of foraging habitat. The percentage of timberland in forest stands of 100 acres or less is a measure of the diversity of forest land cover. This habitat component, as with all diversity measures, is a double-edged sword. A small level of diversity implies extensive forest cover offering little variety of habitat conditions, whereas a high level of diversity indicates excessive forest fragmentation with a deterioration in cover value and impediments to travel to parts of an animal's home range. Mast tree and sapling, seedling, and shrub densities are measures of potential forage resources.

From these data, the user can compare geographic unit habitat conditions to overall state habitat conditions.

Aroostook County - essentially equivalent forest landscape diversity, slightly more winter range but less sapling/seedling acreage, more small-acreage forest stands, less beech and essentially no acorn potential, equivalent browse potential with less utilization. Conclusion, slightly poorer habitat conditions than the state average because of the deficient mast potential.

Capital Region - much more diverse forest landscape, slightly less winter range and slightly more sapling/seedling acreage, more small-acreage stands, less beech but much more acorn potential, less browse potential with less use. Conclusion, better conditions than the state but excessive forest fragmentation is a concern.

Casco Bay - much more landscape diversity, more winter range, equivalent sapling/seedling acreage, much more small-acreage stands, less beech but 7 times more acorn potential, less browse potential and less use. Conclusion, better habitat conditions than the state average but excessive forest fragmentation is a concern.

Hancock County - less land use diversity, equivalent winter range and more sapling/seedling acreage, more small-acreage stands, less beech and acorn potential, more browse potential but with more use. Conclusion, slightly poorer conditions than the state average because of lower mast potential and high browse utilization.

Penobscot County - slightly less landscape diversity, generally equivalent winter range, less sapling/seedling acreage, less small-acreage stands, more beech but very little acorn mast potential, essentially equivalent browse potential with less use. Conclusion, poorer habitat conditions than the state average because of less landscape diversity, very little regenerating forest lands, and a reliance on beech mast.

Piscataquis County - very little landscape diversity, more winter range and slightly more sapling/seedling acreage, less small-acreage stands, slightly more beech and essentially no acorn potential, slightly more browse potential but greater utilization. Conclusion, poorer habitat conditions than the state average because of extensive forest cover with little diversity, absence of oak mast, and higher levels of browse utilization.

Somerset County - more forest land but similarly diverse forest landscape, slightly less winter range and sapling/seedling acreage, much less small-acreage forest stands, equivalent beech but very little acorn mast potential, similar browse potential with less use. Conclusion, poorer habitat conditions than state average, again because of extensive forest cover and reliance solely on beech mast.

Washington County - equivalent landscape diversity, much less winter range, more sapling/seedling acreage, more small-acreage stands, less beech and much less acorn potential, greater browse potential but with greater utilization. Conclusion, generally equivalent habitat conditions as the state because of compensating components but winter range and the high level of browse use is a concern.

Western Maine - less landscape diversity, the least winter range of all units, less sapling/seedling acreage, less small-acreage stands, more mast potential of both types, less browse potential but with greater use. Conclusion, poorer habitat conditions than the state average because of the lack of landscape diversity and winter range, and a concern for the level of browse use.

This evaluation process for the white-tailed deer habitat could be completed for other wildlife species. It should work best for species with broad habitat requirements (eurytopic) and with large home ranges, because these conditions are comparable to the scale of the forest inventory.

In addition to a synthesis of various habitat information for species-specific habitat evaluation, the survey is very useful as a benchmark report on the status of individual habitat components useful to a variety of wildlife. This information will gain value after the subsequent (1990's) resurvey of Maine's forest resources. At that time, trends can be identified that will be useful to the development of regional habitat resource management for the maintenance and improvement of Maine's wildlife habitat resources.

Highlights

Interesting highlights of the habitat survey are:

* The forest land area of Maine is 17.6 million acres, or 89 percent of the land area. Maine is the most heavily forested state in the country.

* All counties in Maine are at least 70 percent forested.

* Timberland area is 17.1 million acres, and has increased slightly since 1971.

* Thirty forest types were identified. Forty-six percent of the timberland, 7.8 million acres, is occupied by forest types in the spruce/fir group.

* Sawtimber stands dominate the timberland with 8.5 million acres. This is an increase of more than 20 percent since 1971.

* Ninety-six percent of the timberland is privately owned. Forest industry owns 8.0 million acres, 47 percent of the total. This is the highest proportion of industrial ownership in the country.

* There are 94.4 billion live trees of all species more than 1 foot tall in Maine. This averages 5,535 trees per acre of timberland. Trees 5.0 inches and larger in d.b.h. total 3.8 billion or 220 per acre.

* Land uses are most interspersed in southeastern Maine and least interspersed in Piscataquis County.

* More than 20 percent of the timberland area is found in stands 9 acres or less in size in southeastern and western Maine.

* Beech constitute more than 50 percent of all live fruit and nut-producing trees, northern red oak is the second most common mast-producing tree.

* Balsam fir is the most commonly surveyed standing dead tree and also the most commonly surveyed standing dead tree with an observed cavity; standing dead red pine most commonly have an observed cavity (51.9 percent), standing dead red oak least commonly have an observed cavity (4.0 percent).

* Beech is the most commonly surveyed live tree with an observed cavity (8.9 percent), black spruce is the least commonly surveyed live tree with an observed cavity (0.1 percent).

* Brambles (Rubus sp.) are the most common understory woody-stemmed species, followed by sapling/seedling sized balsam fir and red and sugar maple.

* An estimated 1 percent of all understory woody stems are heavily browsed, while 82.6 percent show no browse use.

Reliability of the Estimates

The data in this report were based on a carefully designed sample of forest conditions throughout the state. The data are estimates and the effectiveness of the estimating procedure is judged by two important measures: accuracy and precision.

Accuracy describes the closeness of a sample estimate to the true value (how much is really there). Precision refers to the variation among repeated sample estimates. We are chiefly interested in the accuracy of the survey, but in most instances we can only measure its precision.

Although accuracy cannot be measured exactly, it can be checked. Great care was taken in setting up the sample, field personnel were carefully trained, and both office and field work were checked. Drafts of the resource report were submitted to outside experts familiar with the resources in Maine. If questions arose, the data were reviewed and reanalyzed to resolve differences. The data also were compared with those provided by other agencies.

Because of the care exercised in the survey process, our estimates of precision afford a reasonable measure of the survey's adequacy. The precision of each estimate is described by its sampling error. Some sampling errors are given in this report; others are available on request.

An example of the use of sampling errors is the estimate of 181.8 million trees with observed cavities (Table 10). It has an associated sampling error of 3 percent, or 5.5 million trees. Assuming the estimates of this statistic are normally distributed, if there are no errors in procedure and we repeated the survey in the same way, the odds are 2 to 1 (66 percent probability) that the resulting estimate of trees with observed cavities would be between 176.4 and 187.3 million trees, or 181.8 ± 5.5 million trees. Similarly there is a 95 percent probability (19 to 1) that the estimate would be 170.9 to 192.7 million trees, or 181.8 ± 10.9 million trees.

Estimates are most precise or reliable at the state level, followed by unit estimates. In our example, where the state level sampling error is 3 percent, the unit level sampling errors range from 6 (Aroostook County) to 11 percent (Hancock and Washington Counties). In general, as the size of an estimate decreases in relation to the total, the sampling error, expressed as a percentage of the estimate, increases.

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Table 1.--Land area by land use class and geographic unit, Maine, 1982

(In thousands of acres)

Land use class	Aroostook County	Capital Region	Casco Bay	Hancock County	Penobscot County	Piscataquis County	Somerset County	Washington County	Western Maine	All units
Forest land:										
Timberland	3,768.4	1,152.4	1,258.8	776.3	1,872.7	2,238.1	2,334.5	1,454.2	2,204.8	17,060.2
Unproductive	32.5	21.2	6.5	32.1	67.3	32.6	11.0	47.7	22.2	273.1
Productive reserved	10.3	10.0	5.9	29.7	1.4	192.7	.2	12.6	9.2	272.0
Urban	-	2.1	-	-	-	-	-	-	-	2.1
Total forest	3,811.2	1,185.7	1,271.2	838.1	1,941.4	2,463.4	2,345.7	1,514.5	2,236.2	17,607.4
Nonforest land:										
Cropland	233.3	90.7	81.4	11.5	55.1	11.1	40.5	30.8	36.8	591.2
Improved pasture	22.8	33.4	29.3	1.9	16.1	3.6	15.2	3.6	12.1	138.0
Idle farmland	83.1	32.0	51.1	-	11.7	14.7	31.0	-	22.0	245.6
Other farmland	-	19.2	4.4	-	-	-	-	-	-	23.6
Bog/marsh/swamp	33.2	9.4	32.1	48.1	45.2	14.7	-	53.9	-	236.6
Right-of-way	32.8	57.1	53.2	48.2	35.0	14.6	31.0	-	33.1	305.0
Mining/wasteland	11.3	2.0	16.4	-	-	-	10.2	-	9.1	49.0
Recreation site	11.3	1.6	3.3	-	-	-	-	-	10.8	27.0
Industrial/commercial	-	19.6	7.6	12.0	-	-	-	-	-	39.2
Tract/multi-family	-	-	10.8	-	-	-	-	25.8	-	36.6
Single/custom house	11.2	89.9	65.1	24.0	44.2	-	20.6	26.3	-	281.3
Other nonforest	11.2	4.4	32.9	-	11.5	14.6	11.1	-	15.2	100.9
Non-census water	40.2	13.0	16.5	-	34.8	14.5	10.2	-	26.2	155.4
Total nonforest	490.4	372.3	404.1	145.7	253.6	87.8	169.8	140.4	165.3	2,229.4
Total land area	4,301.6	1,558.0	1,675.3	983.8	2,195.0	2,551.2	2,515.5	1,654.9	2,401.5	19,836.8

Table 2.--Index to land use edge by type of land use and geographic unit, Maine, 1975, 1980, or 1981[a]

(Edge hits[b] per thousand acres)

Land use edge type	Aroostook County	Capital Region	Casco Bay	Hancock County	Penobscot County	Piscataquis County	Somerset County	Washington County	Western Maine	All units
Forest -										
forest	10.7	6.6	5.4	7.5	6.1	4.5	12.0	7.7	10.9	8.0
shrub	2.1	3.6	4.3	3.4	4.1	3.4	2.7	7.5	2.7	3.6
agricultural/herbaceous	4.1	7.7	6.4	2.7	2.5	1.8	3.0	1.1	2.5	4.1
cultural	0.5	2.3	5.2	0.9	1.1	0.2	0.4	0.9	0.9	1.6
Shrub -										
agricultural/herbaceous	0.5	1.3	1.1	0.5	0.2	0.7	0.4	1.6	0.2	0.7
cultural	0.2	0.4	0.4	0.5	t	t	t	0.5	t	0.2
Agicultural/herbaceous - cultural	0.4	0.9	1.3	0.2	0.4	0.2	0.2	0.4	0.4	0.5
Hedgerow	1.1	1.4	1.4	0.2	0.7	0.4	1.1	0.2	0.7	0.9
Transportation right-of-way	6.8	11.6	13.0	6.4	5.9	4.1	4.6	7.0	6.3	8.0
Utility right-of-way	0.5	1.6	2.0	0.4	1.1	0.2	0.7	0.2	0.5	0.9
Aquatic	3.4	4.5	4.8	4.5	4.6	1.4	7.1	2.9	2.9	4.1
All types	30.3	41.9	45.3	27.2	26.7	16.9	32.2	30.0	28.0	32.6
Number of photo plots	512	378	400	100	230	242	242	150	230	2,484
Number of edge hits	8,704	8,813	10,106	1,519	3,382	2,251	4,366	2,518	3,618	45,277

[a] Date varies because several sources of aerial photography were used.

[b] Edge condition on an aerial photograph sampled by a line transect (Brooks and Scott 1983).

t=Trace amount, less than 0.05.

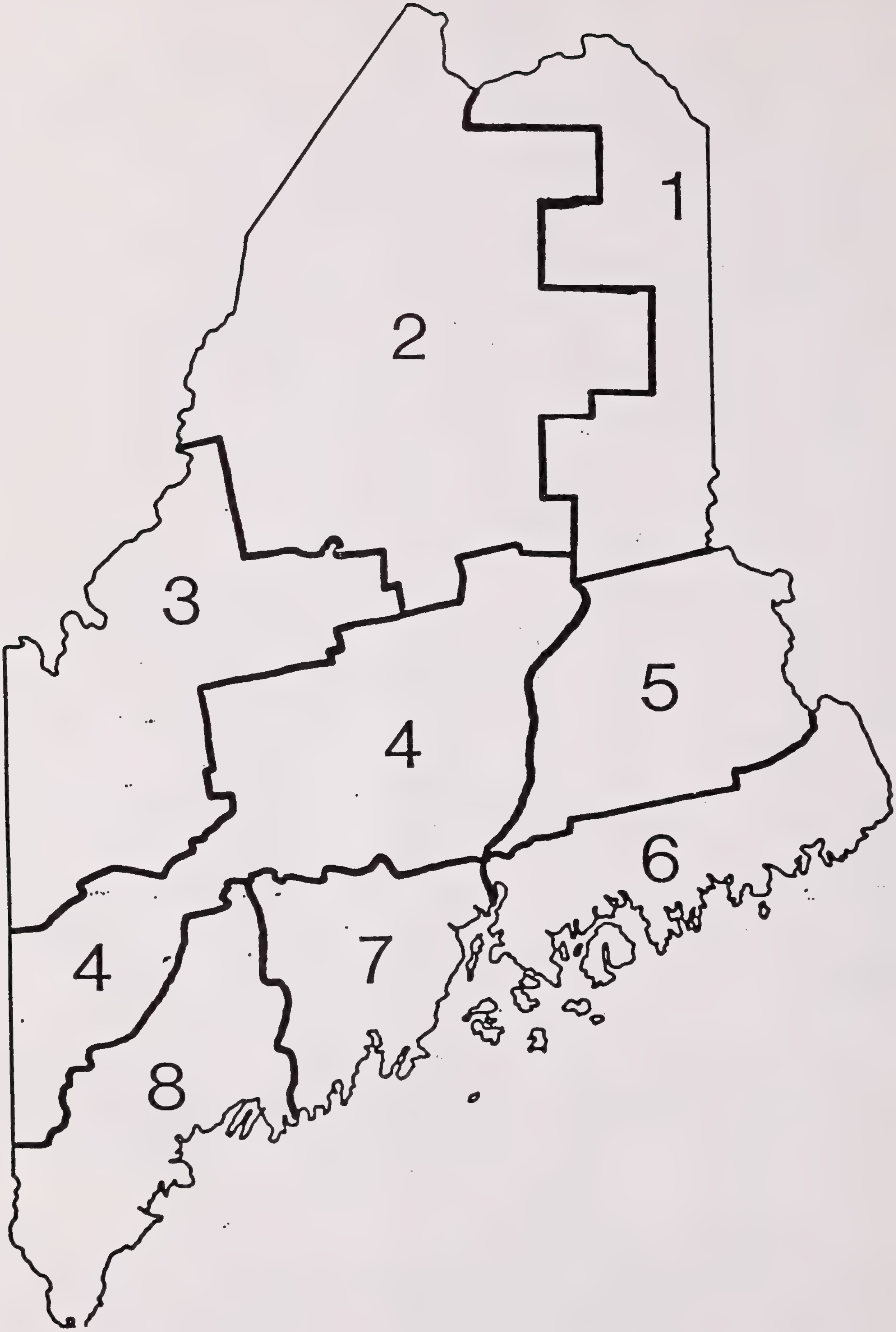
Table 3.--Area of timberland by ownership class and geographic unit, Maine, 1982 (Powell and Dickson 1984)

(In thousands of acres)

Ownership class	Aroostook County	Capital Region	Casco Bay	Hancock County	Penobscot County	Piscataquis County	Somerset County	Washington County	Western Maine	State total
National Forest	.0	.0	3.2	.0	3.7	.0	.0	.0	38.7	45.6
Other federal	5.6	.2	1.7	.5	.0	.0	.0	11.2	.0	19.2
State	82.7	9.6	7.6	22.0	22.9	86.0	55.4	22.5	45.5	354.2
Indian	.0	.0	.0	16.5	80.3	2.7	.0	11.6	46.0	157.1
County and municipal	76.0	7.2	8.1	2.5	6.9	2.9	2.2	.5	7.7	114.0
Total public	164.3	17.0	20.6	41.5	113.8	91.6	57.6	45.8	137.9	690.1
Forest industry	1,955.6	38.6	104.4	337.0	761.1	1,433.1	1,647.9	858.1	881.1	8,016.9
Farmer	273.4	202.9	268.1	64.6	132.8	20.0	105.5	94.2	145.0	1,306.5
Miscellaneous private:										
Individual	488.8	777.8	753.6	242.1	381.9	130.3	244.2	311.9	673.3	4,003.9
Corporate	58.9	53.3	30.3	17.7	69.6	37.9	159.2	28.4	117.1	572.4
Other	827.4	62.8	81.8	73.4	413.5	525.2	120.1	115.8	250.4	2,470.4
Total private	3,604.1	1,135.4	1,238.2	734.8	1,758.9	2,146.5	2,276.9	1,408.4	2,066.9	16,370.1
All owners	3,768.4	1,152.4	1,258.8	776.3	1,872.7	2,238.1	2,334.5	1,454.2	2,204.8	17,060.2

Table 4.--Area of timberland by forest type, forest-type group, and stand-size class, Maine, 1982 (Powell and Dickson 1984)
(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
Red pine	24.1	9.6	9.2	.0	42.9
White pine	751.8	218.2	61.1	.0	1,031.1
White pine/hemlock	314.0	183.3	8.3	.0	505.6
Hemlock	447.0	145.7	22.4	.0	615.1
White/red pine group	1,536.9	556.8	101.0	.0	2,194.7
Balsam fir	372.3	535.3	185.3	8.4	1,101.3
Red spruce	632.6	478.0	45.7	9.7	1,166.0
Red spruce/balsam fir	1,907.0	1,086.0	328.1	.0	3,321.1
White spruce	87.0	62.9	.0	5.0	154.9
Black spruce	8.5	205.0	64.7	.0	278.2
Northern white-cedar	1,030.1	457.8	145.3	.0	1,633.2
Tamarack	45.7	47.0	23.1	.0	115.8
Spruce/fir group	4,083.2	2,872.0	792.2	23.1	7,770.5
Pitch pine	4.1	.0	4.2	.0	8.3
Loblolly/shortleaf group	4.1	.0	4.2	.0	8.3
White pine/no. red oak/wh. ash	15.5	20.7	.0	.0	36.2
Oak/pine group	15.5	20.7	.0	.0	36.2
Post/black/bear oak	.0	4.2	.0	.0	4.2
White oak	4.2	.0	.0	.0	4.2
Northern red oak	66.1	122.8	20.1	.0	209.0
Hawthorn/reverting field	3.9	.0	.0	.0	3.9
Red maple/central hardwoods	12.5	12.7	18.9	.0	44.1
Mixed central hardwoods	18.9	12.5	9.7	.0	41.1
Oak/hickory group	105.6	152.2	48.7	.0	306.5
Black ash/Amer. elm/red maple	31.6	130.2	4.5	.0	166.3
Willow	10.4	.0	41.9	.0	52.3
American elm/green ash	4.0	11.6	4.0	.0	19.6
Elm/ash/red maple group	46.0	141.8	50.4	.0	238.2
Sugar maple/beech/y. birch	1,956.5	976.2	201.5	.0	3,134.2
Black cherry	.0	9.6	9.2	.0	18.8
Red maple/northern hardwoods	396.3	642.1	169.8	.0	1,208.2
Pin cherry/reverting field	.0	10.6	106.3	9.0	125.9
Mixed northern hardwoods	204.7	259.7	49.4	.0	513.8
Northern hardwoods group	2,557.5	1,898.2	536.2	9.0	5,000.9
Aspen	143.5	648.2	229.2	.0	1,020.9
Paper birch	20.8	275.1	74.2	.0	370.1
Gray birch	4.2	30.8	78.9	.0	113.9
Aspen/birch group	168.5	954.1	382.3	.0	1,504.9
Total, all groups	8,517.3	6,595.8	1,915.0	32.1	17,060.2



Map of Maine showing Department of Inland Fisheries and Wildlife Management Unit boundaries.

Table 5.--Area of timberland by revised stand-size class[a] and wildlife management unit, and total land area, Maine, 1982

(In thousands of acres)

Revised stand-size class	Wildlife management unit								All units
	1	2	3	4	5	6	7	8	
Large growth	76.1	924.7	294.4	253.9	113.8	72.4	98.0	221.8	2,055.1
Sawtimber	285.4	1,361.1	391.5	646.5	316.4	175.8	204.7	268.7	3,650.1
Large pole	719.1	1,539.7	1,141.3	1,239.4	571.3	518.7	302.4	365.7	6,397.6
Small pole	210.5	496.1	327.6	640.2	374.1	279.3	240.7	234.1	2,802.6
Sapling	65.8	151.1	69.3	55.4	57.0	166.8	47.8	76.6	689.8
Seedling	139.3	438.9	180.1	153.9	173.7	144.1	90.7	91.3	1,412.0
Nonstocked	6.8	8.9	0.0	21.3	10.0	0.0	0.0	6.0	53.0
All classes	1,503.0	4,920.5	2,404.2	3,010.6	1,616.3	1,357.1	984.3	1,264.2	17,060.2
Total land area[b]	2,018.0	5,124.5	2,531.6	3,533.9	1,746.2	1,596.0	1,294.5	1,718.7	19,563.4

[a] See definitions for standards of revised stand-size classes.
[b] Source: Maine Department of Inland Fisheries and Wildlife.

Table 6.--Area of timberland by stand area class and geographic unit, Maine, 1982

(In thousands of acres)

Stand area class	Aroostook County	Capital Region	Casco Bay	Hancock County	Penobscot County	Piscataquis County	Somerset County	Washington County	Western Maine	All units
1 - 9 acres	349.0	250.9	298.8	74.9	160.3	51.3	176.0	344.9	102.5	1,808.6
10 - 19 acres	460.1	242.3	309.2	94.1	142.7	73.5	114.2	201.1	95.0	1,732.2
20 - 49 acres	845.2	243.9	346.9	140.2	335.3	194.5	186.5	348.7	260.0	2,901.2
50 - 99 acres	556.6	186.7	130.9	167.8	257.7	524.6	227.6	253.6	384.7	2,690.2
100 -499 acres	842.6	203.8	153.6	205.7	401.0	818.3	602.5	126.5	638.5	3,992.5
500+ acres	714.9	24.8	19.4	93.6	575.7	575.9	1,027.7	179.4	724.1	3,935.5
All classes	3,768.4	1,152.4	1,258.8	776.3	1,872.7	2,238.1	2,334.5	1,454.2	2,204.8	17,060.2

Table 7.--Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Eastern redcedar	31	0	0	0	0	0	0	0	0	0	31	100
Serviceberry	166	0	0	0	0	0	0	0	0	0	166	62
Hickory	31	0	0	0	0	0	0	0	0	0	31	100
Beech	67,556	38,569	23,625	13,768	7,858	4,057	1,600	442	397	0	157,872	7
Butternut	0	72	0	55	0	0	0	0	0	0	127	100
Apple	1,673	1,152	134	83	0	41	0	0	16	0	3,099	30
Blackgum	32	0	0	0	17	0	0	0	0	0	49	73
Eastern hophornbeam	7,757	2,890	347	15	0	0	0	0	0	0	11,009	15
Pin cherry	3,697	794	79	0	0	0	0	0	0	0	4,570	21
Black cherry	4,052	1,756	360	193	45	0	16	0	0	0	6,422	19
Chokecherry	268	0	0	0	0	0	0	0	0	0	268	79
White oak	2,902	1,045	259	57	90	75	49	43	10	31	4,561	26
Scarlet oak	0	0	31	0	0	0	0	0	0	0	31	100
Northern red oak	20,362	13,593	6,813	4,251	2,191	1,152	562	331	259	23	49,537	8
Black oak	1,792	1,000	268	152	85	16	0	0	17	0	3,330	27
Mountain ash	816	141	79	38	73	0	0	0	0	0	1,147	40
Total, all species	111,135	61,012	31,995	18,612	10,359	5,341	2,227	816	699	54	242,250	5
Sampling error (percent)	6	6	7	7	8	10	13	18	19	47	5	

Table 8.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	1,481,905	4,201,550	23,804,227	1,343,111	30,830,793
Saplings	372,811	3,307,749	65,711	17,023	3,763,294
Total sawtimber	1,854,716	7,509,299	23,869,938	1,360,134	34,594,087
Poletimber:					
Shrubs	1,503,730	7,858,251	20,690,656	1,587,002	31,639,637
Saplings	451,586	4,343,107	103,528	8,940	4,907,161
Total poletimber	1,955,316	12,201,358	20,794,184	1,595,942	36,546,798
Sapling/seedling:					
Shrubs	354,113	8,508,787	17,471,656	1,287,246	27,621,802
Saplings	56,304	1,186,000	113,544	0	1,355,850
Total sapling/seedling	410,417	9,694,787	17,585,200	1,287,246	28,977,652
Nonstocked:					
Shrubs	0	432,907	1,043,657	31,027	1,507,591
Saplings	0	0	0	0	0
Total nonstocked	0	432,907	1,043,657	31,027	1,507,591
Total, all classes	4,220,449	29,838,351	63,292,979	4,274,349	101,626,128

Table 9.--Number of standing dead trees on timberland by species, condition class, and diameter class, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0–10.9	11.0–14.9	15+	Total	5.0–10.9	11.0–14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	88,471	2,806	99	91,376	106,270	5,682	733	112,685	204,061	4
Tamarack	612	190	0	802	1,436	61	55	1,552	2,354	33
White spruce	2,828	120	30	2,978	1,312	103	39	1,454	4,432	17
Black spruce	3,008	37	0	3,045	2,906	129	0	3,035	6,080	21
Red spruce	19,992	1,043	237	21,272	15,271	2,087	748	18,106	39,378	7
Red pine	82	0	0	82	74	0	0	74	156	71
White pine	3,214	424	270	3,908	8,028	1,397	670	10,095	14,003	10
Northern white-cedar	21,227	5,635	1,740	28,602	14,940	2,873	910	18,723	47,325	7
Hemlock	1,830	196	43	2,069	2,149	375	284	2,808	4,877	17
Other softwoods	152	21	0	173	284	15	0	299	472	57
Total softwoods	141,416	10,472	2,419	154,307	152,670	12,722	3,439	168,831	323,138	3
Sugar maple	1,658	146	51	1,855	2,627	969	1,103	4,699	6,554	14
Red maple	5,148	331	107	5,586	11,765	1,526	475	13,766	19,352	9
Yellow birch	1,936	359	255	2,550	6,652	4,813	6,143	17,608	20,158	6
Paper birch	5,246	473	67	5,786	13,840	2,291	950	17,081	22,867	9
Gray birch	2,048	0	0	2,048	6,470	0	0	6,470	8,518	15
Beech	4,098	654	360	5,112	7,880	3,101	2,552	13,533	18,645	12
White ash	546	0	43	589	877	224	169	1,270	1,859	24
Black ash	4,489	290	80	4,859	3,019	560	88	3,667	8,526	20
Aspen	6,739	290	30	7,059	13,116	1,006	224	14,346	21,405	11
White oaks	28	0	0	28	0	15	0	15	43	74
Red oaks	356	60	33	449	540	0	7	547	996	36
Basswood	0	34	0	34	26	0	0	26	60	71
Elm	1,920	289	232	2,441	2,110	366	197	2,673	5,114	22
Other hardwoods	5,225	48	0	5,273	7,634	196	496	8,326	13,599	13
Total hardwoods	39,437	2,974	1,258	43,669	76,556	15,067	12,404	104,027	147,696	4
Total, all species	180,853	13,446	3,677	197,976	229,226	27,789	15,843	272,858	470,834	3
Sampling error (percent)	4	7	11	4	3	4	5	3	3	

Table 10.--Number of trees with observed cavities on timberland by species and condition class, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	Thousand trees									Percent
Balsam fir	6,698	4,720	0	407	11,825	5,204	12,938	18,142	29,967	7
Tamarack	216	216	0	0	432	100	314	414	846	43
White spruce	391	0	0	39	430	185	205	390	820	34
Black spruce	37	29	0	59	125	75	122	197	322	50
Red spruce	2,275	940	0	0	3,215	774	2,303	3,077	6,292	10
Red pine	0	69	0	0	69	81	0	81	150	62
White pine	959	631	11	87	1,688	220	1,718	1,938	3,626	13
Northern white-cedar	4,492	10,077	152	1,779	16,500	5,878	5,222	11,100	27,600	7
Hemlock	773	1,241	79	0	2,093	132	807	939	3,032	15
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	15,841	17,923	242	2,371	36,377	12,649	23,629	36,278	72,655	4
Sugar maple	4,668	5,612	197	48	10,525	535	2,368	2,903	13,428	9
Red maple	6,325	14,206	59	340	20,930	978	5,054	6,032	26,962	7
Yellow birch	2,652	4,911	29	287	7,879	439	9,218	9,657	17,536	7
Paper birch	1,695	2,746	67	89	4,597	455	4,594	5,049	9,646	12
Gray birch	188	622	0	104	914	235	516	751	1,665	31
Beech	3,468	9,818	85	621	13,992	776	6,027	6,803	20,795	11
White ash	359	254	16	0	629	143	337	480	1,109	27
Black ash	149	336	102	128	715	369	692	1,061	1,776	22
Aspen	1,727	3,227	30	0	4,984	841	3,006	3,847	8,831	14
White oaks	0	88	0	0	88	0	16	16	104	51
Red oaks	725	601	37	0	1,363	33	7	40	1,403	22
Basswood	119	79	0	0	198	0	26	26	224	49
Elm	28	15	0	0	43	152	231	383	426	34
Other hardwoods	330	2,029	16	66	2,441	559	2,265	2,824	5,265	16
Total hardwoods	22,433	44,544	638	1,683	69,298	5,515	34,357	39,872	109,170	4
Total, all species	38,274	62,467	880	4,054	105,675	18,164	57,986	76,150	181,825	3
Sampling error (percent)	6	5	21	15	-	8	4	-	3	

Table 11.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Canada yew	6.1	5.5	3.7	.0	15.3	47	s[a]
Northern white-cedar	1,737.5	1,468.4	303.5	.0	3,509.4	10	13
Eastern hemlock	831.0	675.4	49.4	.0	1,555.8	10	16
Striped maple	3,478.6	2,388.5	505.6	.0	6,372.7	7	4
Red maple	4,068.7	4,422.3	1,319.8	.0	9,810.8	4	12
Mountain maple	2,294.2	1,366.5	348.9	.0	4,009.6	8	4
Apple	15.6	12.7	20.3	.0	48.6	32	23
Smooth sumac	19.2	2.1	.0	.0	21.3	51	s
Staghorn sumac	17.5	22.8	3.5	.0	43.8	37	s
Basswood	6.3	.9	.0	.0	7.2	68	17
Mountain ash	93.6	72.6	77.3	.0	243.5	24	s
Hobblebush viburnum	3,210.2	1,450.8	107.6	.0	4,768.6	10	s
Total readily browsed	15,778.5	11,888.5	2,739.6	.0	30,406.6	3	
Balsam fir	10,385.5	10,505.8	3,097.6	.0	23,988.9	4	13
Juniper	561.6	401.9	88.8	563.7	1,616.0	40	s
White pine	296.0	288.1	69.0	.0	653.1	9	32
Sugar maple	5,982.7	2,467.8	348.4	.0	8,798.9	8	5
Shadbush	28.5	190.3	54.1	.0	272.9	27	s
Yellow birch	2,753.7	1,402.2	401.2	.0	4,557.1	8	7
Black birch	7.4	11.9	.0	.0	19.3	43	s
Paper birch	1,014.0	1,518.8	996.8	.0	3,529.6	7	14
Red-osier dogwood	129.2	457.2	746.0	.0	1,332.4	29	s
Hawthorn	7.1	14.7	25.9	.0	47.7	40	6
American hazelnut	442.9	330.0	168.5	.0	941.4	15	s
Beaked hazelnut	1,039.1	1,173.7	185.5	.0	2,398.3	12	s
Beech	2,310.1	1,679.5	235.3	.0	4,224.9	7	15
White ash	463.7	903.2	120.9	.0	1,487.8	11	7
Black ash	295.7	267.3	22.5	.0	585.5	15	14
Huckleberries	24.8	82.7	10.3	.0	117.8	40	s
Winterberry	108.6	447.2	76.7	.0	632.5	32	s
Honeysuckle	547.7	532.3	161.5	.0	1,241.5	12	s
Mountain holly	41.0	95.6	.0	.0	136.6	34	s
Balsam poplar	185.5	317.8	86.5	.0	589.8	29	3
Bigtooth aspen	119.6	83.0	107.3	.0	309.9	21	7
Quaking aspen	322.3	1,178.7	741.8	.0	2,242.8	15	11
Pin cherry	340.7	357.0	628.6	.0	1,326.3	14	8
Black cherry	204.9	362.0	217.2	.0	784.1	14	5
Chokecherry	105.5	242.2	291.5	.0	639.2	28	s
White oak	15.2	36.1	70.4	.0	121.7	39	14
Roses	96.7	6.1	129.4	.0	232.2	56	s
Brambles	13,745.5	12,272.3	11,744.4	12.5	37,774.7	7	s

Table 11.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Willows	126.8	146.1	456.1	.0	729.0	21	6
Common elderberry	37.0	60.8	34.8	.0	132.6	25	s
Red-berried elder	39.9	63.4	69.2	.0	172.5	28	s
American elm	5.6	77.7	1.6	.0	84.9	59	17
Blueberries	2,135.5	1,781.3	2,711.8	455.1	7,083.7	17	s
Sweetfern	129.9	361.6	149.1	.0	640.6	23	s
Maple-leaf viburnum	184.0	215.2	50.2	.0	449.4	31	s
Witherod	267.6	490.2	407.0	.0	1,164.8	18	s
Total commonly browsed	44,501.5	40,821.7	24,705.9	1,031.3	111,060.4	3	
Tamarck	8.5	46.3	44.2	.0	99.0	29	42
White spruce	229.8	160.4	52.8	.0	443.0	12	31
Black spruce	97.1	401.0	253.0	.0	751.1	21	25
Red spruce	2,563.0	1,835.8	907.2	.0	5,306.0	7	16
Pitch Pine	.0	.0	.5	.0	.5	100	100
Speckled alder	1,443.6	1,889.3	955.9	.0	4,288.8	11	s
Bog Rosemary	0	22.5	.0	.0	22.5	100	s
Black chokeberry	72.9	13.7	.0	.0	86.6	71	s
Grey birch	166.2	346.5	376.9	.0	889.6	12	27
Lambkill	610.1	2,262.3	2,710.6	24.6	5,607.6	23	s
Labrador tea	15.2	224.3	283.8	.0	523.3	35	s
Eastern hophornbeam	178.1	164.1	42.1	.0	384.3	17	25
Bear Oak	14.5	4.6	154.3	.0	173.4	70	2
Red oak	200.1	379.7	105.8	.0	685.6	17	15
Spiraea	684.0	1,182.5	2,612.1	179.2	4,657.8	17	s
Total infrequently browsed	6,283.1	8,933.0	8,499.2	203.8	23,919.1	7	
Red ash	81.2	78.4	9.8	.0	169.4	26	s
Witch-hazel	147.5	291.9	57.6	.0	497.0	18	s
Rhododendron	16.8	2.0	.0	.0	18.8	81	s
Gooseberries	1,795.5	1,104.5	567.8	.0	3,467.8	15	s
Total questionable	2,041.0	1,476.8	635.2	.0	4,153.0	13	
Unclassified Species	3,496.9	4,746.1	3,975.6	272.5	12,488.1	7	
Total all species	72,098.4	67,866.1	40,555.5	1,507.6	182,027.6	2	
Sampling error (percent)	4	4	8	64	2		

[a] Classed as shrub species.

Table 12.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group								All groups
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Canada yew	6.4	5.2	.0	.0	.0	.0	.0	3.7	15.3
Northern white-cedar	103.0	3,019.5	.0	.0	30.5	107.8	166.0	82.6	3,509.4
Eastern hemlock	706.1	414.9	.0	.0	15.6	.0	383.4	35.8	1,555.8
Striped maple	266.9	1,553.0	.0	25.1	45.6	22.4	3,810.5	649.2	6,372.7
Red maple	1,031.5	4,147.3	.0	26.8	231.1	153.8	3,163.6	1,056.7	9,810.8
Mountain maple	52.5	2,146.2	.0	.0	8.8	16.9	1,315.0	470.2	4,009.6
Apple	6.9	1.9	.0	.0	7.7	.0	22.9	9.2	48.6
Smooth sumac	.0	8.4	.0	.0	.0	.0	12.9	.0	21.3
Staghorn sumac	5.4	20.0	.0	.0	6.3	.0	10.2	1.9	43.8
Basswood	7.2	.0	.0	.0	.0	.0	.0	.0	7.2
Mountain ash	.0	167.6	.0	.0	.0	.0	56.9	19.0	243.5
Hobblebush viburnum	84.0	994.5	.0	.0	4.3	4.2	3,411.0	270.6	4,768.6
Total readily browsed	2,269.9	12,478.5	.0	51.9	349.9	305.1	12,352.4	2,598.9	30,406.6
Balsam fir	2,186.5	15,536.0	.0	.0	113.0	140.6	4,497.6	1,515.2	23,988.9
Juniper	673.2	61.6	.0	1.8	96.2	.0	579.7	203.5	1,616.0
White pine	320.9	121.7	.0	5.2	54.0	1.3	109.4	40.6	653.1
Sugar maple	523.9	1,440.9	.0	.0	57.1	22.7	6,563.4	190.9	8,798.9
Shadbush	24.1	47.2	.0	.0	20.1	3.2	69.1	109.2	272.9
Yellow birch	381.8	1,751.7	.0	9.4	4.0	13.9	2,298.8	97.5	4,557.1
Black birch	8.8	.0	.0	.0	.9	.0	7.2	2.4	19.3
Paper birch	281.6	1,606.1	.0	32.5	84.0	6.3	982.5	536.6	3,529.6
Red-osier dogwood	16.4	320.7	.0	.0	2.8	265.3	413.1	314.1	1,332.4
Hawthorn	17.4	1.7	.0	.0	1.3	1.9	25.4	.0	47.7
American hazelnut	75.6	340.1	.0	.0	10.2	32.2	298.5	184.8	941.4
Beaked hazelnut	238.7	735.2	.0	.0	73.5	29.3	899.8	421.8	2,398.3
Beech	295.2	203.5	.0	15.2	80.5	2.9	3,392.7	234.9	4,224.9
White ash	457.0	167.3	.0	.0	27.7	16.8	570.6	248.4	1,487.8
Black ash	5.2	401.6	.0	.0	1.9	66.5	56.2	54.1	585.5
Huckleberries	17.6	36.1	.0	34.0	21.3	.0	8.8	.0	117.8
Winterberry	130.8	143.2	.0	.0	87.1	4.3	200.5	66.6	632.5
Honeysuckle	72.5	794.9	.0	.0	21.0	.0	188.8	164.3	1,241.5
Mountain holly	13.0	85.7	.0	.0	19.3	.0	18.6	.0	136.6
Balsam poplar	.0	278.5	.0	.0	.0	.0	95.9	215.4	589.8
Bigtooth aspen	64.9	75.2	.0	.0	9.7	.0	100.0	60.1	309.9
Quaking aspen	210.9	448.1	.0	.0	7.9	53.2	589.6	933.1	2,242.8
Pin cherry	170.8	352.3	.0	23.1	13.5	12.1	555.6	198.9	1,326.3

Table 12.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group								All groups
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Black cherry	163.1	181.9	.0	.0	43.4	65.6	169.9	160.2	784.1
Chokecherry	96.3	76.5	.0	.0	9.8	20.7	342.6	93.3	639.2
White oak	18.8	.0	.0	6.4	29.6	.0	33.0	33.9	121.7
Roses	.0	6.5	.0	.0	.0	3.5	170.9	51.3	232.2
Brambles	2,755.9	18,127.2	.0	10.3	259.4	1,483.2	12,470.9	2,667.8	37,774.7
Willows	80.0	144.0	.0	.0	75.8	113.4	79.9	235.9	729.0
Common elderberry	6.4	44.3	.0	.0	.0	.0	47.8	34.1	132.6
Red-berried elder	.8	60.6	.0	.0	.0	.0	109.0	2.1	172.5
American elm	7.2	6.8	.0	.0	.0	3.8	51.8	15.3	84.9
Blueberries	931.8	3,208.1	66.0	29.7	354.6	83.2	1,117.3	1,293.0	7,083.7
Sweetfern	36.6	265.0	.0	.0	21.3	2.9	108.6	206.2	640.6
Maple-leaf viburnum	9.8	65.6	.0	13.2	6.8	27.6	191.5	134.9	449.4
Wild raisin	103.8	395.3	.0	.5	8.3	26.9	282.5	347.5	1,164.8
Total commonly browsed	10,397.3	47,531.1	66.0	181.3	1,616.0	2,503.3	37,697.5	11,067.9	111,060.4
Tamarack	2.1	80.9	.0	.0	4.2	1.8	2.3	7.7	99.0
White spruce	22.1	309.1	.0	.0	1.8	.0	70.1	39.9	443.0
Black spruce	.0	715.0	.0	.0	.0	15.8	16.7	3.6	751.1
Red spruce	274.7	4,033.2	.0	.0	15.3	13.3	812.9	156.6	5,306.0
Pitch pine	.0	.0	.5	.0	.0	.0	.0	.0	.5
Speckled alder	177.7	2,594.2	.0	.0	.0	425.6	512.5	578.8	4,288.8
Bog Rosemary	.0	22.5	.0	.0	.0	.0	.0	.0	22.5
Black chokeberry	64.6	8.4	.0	.0	1.8	10.9	.9	.0	86.6
Gray birch	182.4	133.7	11.6	3.2	45.1	11.6	132.4	369.6	889.6
Lambkill	433.5	2,439.6	.0	.6	226.7	1.8	1,110.5	1,394.9	5,607.6
Labrador tea	3.5	413.4	.0	.0	7.4	13.6	85.4	.0	523.3
Eastern hophornbeam	78.6	36.0	.0	.0	23.6	6.7	212.9	26.5	384.3
Bear oak	9.0	.0	51.5	.0	.0	.0	.0	112.9	173.4
Red oak	259.7	14.9	.0	11.6	101.4	1.8	262.7	33.5	685.6
Spiraea	731.3	1,249.5	.0	1.3	29.0	92.0	1,044.0	1,510.7	4,657.8
Total infrequently browsed	2,239.2	12,050.4	63.6	16.7	456.3	594.9	4,263.3	4,234.7	23,919.1

Table 12.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group								All groups
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Red ash	87.4	17.5	.0	.0	3.0	29.0	23.2	9.3	169.4
Witch-hazel	184.2	60.5	.0	4.6	84.2	.0	145.6	17.9	497.0
Rhododendron	17.0	1.8	.0	.0	.0	.0	.0	.0	18.8
Gooseberries	254.9	1,774.1	.0	.0	6.5	6.9	1,094.8	331.0	3,468.2
Total questionable	543.5	1,853.9	.0	4.6	93.7	35.9	1,263.6	358.2	4,153.4
Unclassified species	1,542.1	5,174.8	16.3	57.0	712.0	695.1	2,198.0	2,092.8	12,488.1
Total all species	16,992.0	79,088.7	145.9	311.5	3,227.9	4,134.3	57,774.8	20,352.5	182,027.6
Sampling error (percent)	8	4	83	43	27	26	6	12	2

Table 13.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Canada yew	15.3	.0	.0	.0	15.3
Northern white-cedar	3,420.9	67.2	21.3	.0	3,509.4
Eastern hemlock	1,508.6	44.1	3.1	.0	1,555.8
Striped maple	4,252.2	1,622.0	419.3	79.2	6,372.7
Red maple	6,824.9	2,108.3	689.4	188.2	9,810.8
Mountain maple	2,589.4	1,142.7	241.0	36.5	4,009.6
Apple	36.5	10.1	2.0	.0	48.6
Smooth sumac	21.3	.0	.0	.0	21.3
Staghorn sumac	32.3	11.5	.0	.0	43.8
Basswood	5.3	.0	.0	1.9	7.2
Mountain ash	189.2	29.1	19.3	5.9	243.5
Hobblebush viburnum	3,450.2	800.8	346.3	171.3	4,768.6
Total readily browsed	22,346.1	5,835.8	1,741.7	483.0	30,406.6
Balsam fir	22,495.1	1,168.9	287.7	37.2	23,988.9
Juniper	1,611.4	4.6	.0	.0	1,616.0
White pine	628.6	9.1	4.9	10.5	653.1
Sugar maple	6,213.8	1,989.1	474.1	121.9	8,798.9
Shadbush	212.3	21.8	34.6	4.2	272.9
Yellow birch	2,990.1	1,259.8	247.4	59.8	4,557.1
Black birch	16.7	2.6	.0	.0	19.3
Paper birch	2,594.4	688.5	216.0	30.7	3,529.6
Red-osier dogwood	627.3	409.7	198.7	96.7	1,332.4
Hawthorn	47.1	.6	.0	.0	47.7
American hazelnut	488.9	417.5	29.6	5.4	941.4
Beaked hazelnut	1,918.1	387.8	81.7	10.7	2,398.3
Beech	3,421.8	625.6	139.6	37.9	4,224.9
White ash	1,046.2	310.9	80.1	50.6	1,487.8
Black ash	483.1	77.6	11.9	12.9	585.5
Huckleberries	78.3	25.7	13.8	.0	117.8
Winterberry	521.8	85.3	25.4	.0	632.5
Honeysuckle	982.8	192.5	48.0	18.2	1,241.5
Mountain holly	134.7	1.9	.0	.0	136.6
Balsam poplar	347.9	55.4	56.9	129.6	589.8
Bigtooth aspen	255.7	37.9	14.2	2.1	309.9
Quaking aspen	1,837.1	306.7	83.4	15.6	2,242.8
Pin cherry	1,086.5	114.2	119.5	6.1	1,326.3
Black cherry	549.1	183.7	38.4	12.9	784.1
Chokecherry	445.5	147.0	36.7	10.0	639.2
White oak	97.7	23.0	1.0	.0	121.7
Roses	197.3	34.9	.0	.0	232.2
Brambles	34,520.9	2,792.3	268.5	193.0	37,774.7
Willows	558.4	104.5	43.4	22.7	729.0
Common elderberry	117.7	13.1	1.8	.0	132.6
Red-berried elder	118.4	31.4	8.9	13.8	172.5
American elm	83.1	1.8	.0	.0	84.9
Blueberries	4,973.3	1,265.5	767.0	77.9	7,083.7
Sweetfern	530.3	83.9	26.4	.0	640.6
Maple-leaf viburnum	355.8	53.6	32.9	7.1	449.4
Wild raisin	817.0	318.5	8.9	20.4	1,164.8
Total commonly browsed	93,404.2	13,246.9	3,401.4	1,007.9	111,060.4

Table 13.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	79.9	17.3	.0	1.8	99.0
White spruce	430.4	10.9	.0	1.7	443.0
Black spruce	751.1	.0	.0	.0	751.1
Red spruce	5,080.3	158.7	54.8	12.2	5,306.0
Pitch pine	.5	.0	.0	.0	.5
Speckled alder	3,739.0	472.0	73.6	4.2	4,288.8
Bog Rosemary	10.0	.0	12.5	.0	22.5
Black chokeberry	34.1	52.5	.0	.0	86.6
Gray birch	654.1	120.9	86.3	28.3	889.6
Lambkill	5,087.7	493.3	26.6	.0	5,607.6
Labrador tea	523.3	.0	.0	.0	523.3
Eastern hophornbeam	344.1	35.4	2.7	2.1	384.3
Bear oak	173.4	.0	.0	.0	173.4
Red oak	472.8	52.2	127.7	32.9	685.6
Spiraea	3,868.9	755.7	23.8	9.4	4,657.8
Total infrequently browsed	21,249.6	2,168.9	408.0	92.6	23,919.1
Red ash	154.9	14.5	.0	.0	169.4
Witch-hazel	411.9	83.3	1.8	.0	497.0
Rhododendron	18.8	.0	.0	.0	18.8
Gooseberries	3,392.6	64.8	2.1	8.7	3,468.2
Total questionable	3,978.2	162.6	3.9	8.7	4,153.4
Unclassified species	9,379.3	2,516.1	401.-	191.7	12,488.1
Total, all species	150,357.4	23,930.3	5,956.0	1,783.9	182,027.6
Sampling error (percent)	3	6	11	17	2

Table 14.--Area of timberland by forest type, forest-type group, and stand-size class, Aroostook County, Maine, 1982 (Powell and Dickson 1984)

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
White pine	8.4	.0	.0	.0	8.4
Hemlock	25.4	8.5	.0	.0	33.9
White/red pine group	33.8	8.5	.0	.0	42.3
Balsam fir	116.4	143.6	16.6	8.4	285.0
Red spruce	116.0	74.6	25.2	.0	215.8
Red spruce/balsam fir	595.0	234.7	17.2	.0	846.9
White spruce	41.8	33.7	.0	.0	75.5
Black spruce	8.5	101.4	33.5	.0	143.4
Northern white-cedar	439.9	127.3	69.0	.0	636.2
Tamarack	17.2	8.8	8.8	.0	34.8
Spruce/fir group	1,334.8	724.1	170.3	8.4	2,237.6
Black ash/Amer. elm/red maple	8.8	33.6	.0	.0	42.4
Willow	.0	.0	17.3	.0	17.3
Elm/ash/red maple group	8.8	33.6	17.3	.0	59.7
Sugar maple/beech/yellow birch	669.4	116.9	59.9	.0	846.2
Red maple/northern hardwoods	8.5	75.9	8.5	.0	92.9
Pin cherry/reverting field	.0	.0	43.4	.0	43.4
Mixed northern hardwoods	16.5	33.7	.0	.0	50.2
Northern hardwoods group	694.4	226.5	111.8	.0	1,032.7
Aspen	42.3	235.9	83.6	.0	361.8
Paper birch	.0	25.5	8.8	.0	34.3
Aspen/birch group	42.3	261.4	92.4	.0	396.1
All forest types	2,114.1	1,254.1	391.8	8.4	3,768.4

Table 15.—Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Aroostook County, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0–6.9	7.0–8.9	9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	29+		
	Thousand trees											Percent
Beech	10,842	6,711	4,425	4,264	2,870	1,800	608	237	178	0	31,935	12
Apple	0	115	0	0	0	25	0	0	0	0	140	100
Eastern hophornbeam	761	405	235	0	0	0	0	0	0	0	1,401	36
Pin cherry	351	113	0	0	0	0	0	0	0	0	464	50
Black cherry	118	0	0	0	0	0	0	0	0	0	118	71
Northern red oak	0	0	0	40	30	0	0	0	0	0	70	100
Total, all species	12,072	7,344	4,660	4,304	2,900	1,825	608	237	178	0	34,128	11
Sampling error (percent)	15	14	16	15	15	19	26	33	36	–	11	

Table 16.—Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Aroostook County, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	550,541	781,935	6,881,595	164,504	8,378,575
Saplings	72,328	787,276	8,726	12,052	880,382
Total sawtimber	622,869	1,569,211	6,890,321	176,556	9,258,957
Poletimber:					
Shrubs	459,776	1,171,975	4,366,006	67,016	6,064,771
Saplings	17,195	687,824	6,911	0	711,930
Total poletimber	476,971	1,859,799	4,372,917	67,016	6,776,701
Sapling/seedling:					
Shrubs	180,770	785,154	4,350,835	44,036	5,360,795
Saplings	3,574	220,031	18,844	0	242,451
Total sapling/seedling	184,344	1,005,185	4,369,679	44,036	5,603,246
Nonstocked:					
Shrubs	0	0	0	0	0
Saplings	0	0	0	0	0
Total nonstocked	0	0	0	0	0
Total, all classes	1,284,184	4,434,195	15,632,917	287,608	21,638,904

Table 17.--Number of standing dead trees on timberland by species, condition class, and diameter class, Aroostook County, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0–10.9	11.0–14.9	15+	Total	5.0–10.9	11.0–14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	27,295	685	0	27,980	22,019	1,491	340	23,850	51,830	7
Tamarack	30	0	0	30	392	0	0	392	422	71
White spruce	1,414	41	30	1,485	661	67	39	767	2,252	25
Black spruce	1,592	0	0	1,592	1,824	29	0	1,853	3,445	30
Red spruce	3,937	199	104	4,240	2,012	291	151	2,454	6,694	13
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	0	30	3	33	594	85	34	713	746	33
Northern white-cedar	5,252	2,201	612	8,065	3,977	919	332	5,228	13,293	11
Hemlock	430	0	0	430	176	69	57	302	732	34
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	39,950	3,156	749	43,855	31,655	2,951	953	35,559	79,414	6
Sugar maple	388	38	11	437	511	212	555	1,278	1,715	20
Red maple	551	64	58	673	1,329	245	28	1,602	2,275	21
Yellow birch	130	28	32	190	1,216	1,193	1,853	4,262	4,452	12
Paper birch	438	77	30	545	1,662	438	187	2,287	2,832	19
Gray birch	0	0	0	0	0	0	0	0	0	0
Beech	453	29	117	599	1,155	1,182	889	3,226	3,825	18
White ash	60	0	0	60	292	58	30	380	440	64
Black ash	2,104	155	80	2,339	843	0	0	843	3,182	35
Aspen	1,429	60	30	1,519	2,970	216	78	3,264	4,783	20
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	581	88	59	728	413	0	55	468	1,196	66
Other hardwoods	521	0	0	521	713	64	84	861	1,382	33
Total hardwoods	6,655	539	417	7,611	11,104	3,608	3,759	18,471	26,082	8
Total, all species	46,605	3,695	1,166	51,466	42,759	6,559	4,712	54,030	105,496	5
Sampling error (percent)	8	14	16	7	6	9	10	5	5	

Table 18.--Number of trees with observed cavities on timberland by species and condition class, Aroostook County, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	Thousand trees									Percent
Balsam fir	2,217	1,243	0	0	3,460	1,024	2,553	3,577	7,037	12
Tamarack	127	200	0	0	327	0	0	0	327	62
White spruce	118	0	0	39	157	0	205	205	362	43
Black spruce	0	0	0	0	0	0	0	0	0	0
Red spruce	679	130	0	0	809	286	453	739	1,548	19
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	0	59	0	0	59	4	179	183	242	61
Northern white-cedar	1,479	2,218	79	406	4,182	1,192	1,209	2,401	6,583	11
Hemlock	28	65	14	0	107	0	40	40	147	47
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	4,648	3,915	93	445	9,101	2,506	4,639	7,145	16,246	8
Sugar maple	1,180	1,910	87	29	3,206	67	783	850	4,056	14
Red maple	689	1,958	0	0	2,647	95	773	868	3,515	19
Yellow birch	380	577	29	30	1,016	44	2,341	2,385	3,401	13
Paper birch	89	103	0	0	192	88	422	510	702	27
Gray birch	0	0	0	0	0	0	0	0	0	0
Beech	498	1,771	30	155	2,454	194	1,350	1,544	3,998	17
White ash	117	61	0	0	178	0	89	89	267	56
Black ash	0	0	28	59	87	331	0	331	418	42
Aspen	537	1,262	0	0	1,799	336	1,010	1,346	3,145	26
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	28	0	0	0	28	0	55	55	83	75
Other hardwoods	0	232	0	0	232	0	250	250	482	39
Total hardwoods	3,518	7,874	174	273	11,839	1,155	7,073	8,228	20,067	8
Total, all species	8,166	11,789	267	718	20,940	3,661	11,712	15,373	36,313	6
Sampling error (percent)	11	10	36	26		15	8		6	

Table 19.—Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Aroostook County, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Canada yew	5.2	.0	.0	.0	5.2	74	s[a]
Northern white-cedar	1,018.9	367.3	51.6	.0	1,437.8	15	13
Eastern hemlock	69.7	20.4	5.0	.0	95.1	28	16
Striped maple	731.5	143.9	68.4	.0	943.8	12	5
Red maple	1,128.4	720.9	252.8	.0	2,102.1	9	8
Mountain maple	856.0	474.2	168.6	.0	1,498.8	12	3
Apple	.0	1.7	10.6	.0	12.3	87	0
Staghorn sumac	10.3	.0	.0	.0	10.3	100	s
Mountain ash	34.8	19.2	19.1	.0	73.1	34	s
Hobblebush viburnum	842.6	177.4	34.4	.0	1,054.4	17	s
Total readily browsed	4,697.4	1,925.0	610.5	.0	7,232.9	5	
Balsam fir	2,764.0	2,186.8	596.2	.0	5,547.0	7	11
White pine	8.6	10.2	1.6	.0	20.4	31	8
Sugar maple	1,955.4	347.4	60.7	.0	2,363.5	13	5
Shadbush	13.7	25.4	28.2	.0	67.3	31	s
Yellow birch	859.8	166.0	85.9	.0	1,111.7	11	5
Paper birch	249.0	198.5	63.5	.0	511.0	15	16
Red-osier dogwood	94.7	236.2	555.5	.0	886.4	40	s
Hawthorn	1.7	.0	12.3	.0	14.0	89	0
American hazelnut	173.8	151.6	114.9	.0	440.3	20	s
Beaked hazelnut	376.7	308.2	65.8	.0	750.7	19	s
Beech	823.3	127.2	27.9	.0	978.4	15	8
White ash	42.1	72.4	6.9	.0	121.4	26	10
Black ash	102.5	47.7	7.1	.0	157.3	30	14
Huckleberries	13.8	1.7	.0	.0	15.5	90	s
Honeysuckle	147.1	103.9	78.0	.0	329.0	22	s
Mountain holly	3.4	12.1	.0	.0	15.5	71	s
Balsam poplar	134.0	302.5	43.4	.0	479.9	35	2
Bigtooth aspen	1.7	3.5	.0	.0	5.2	57	33
Quaking aspen	51.6	314.2	250.0	.0	615.8	28	14
Pin cherry	21.9	22.1	139.9	.0	183.9	45	7
Black cherry	6.9	6.9	51.8	.0	65.6	67	0
Chokecherry	27.9	8.7	85.8	.0	122.4	52	s
Brambles	4,356.0	2,770.8	3,335.1	.0	10,461.9	12	s

Table 19.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Willows	46.3	86.0	157.3	.0	289.6	29	8
Common elderberry	31.2	1.8	8.7	.0	41.7	39	s
Red-berried elder	8.6	18.9	17.4	.0	44.9	51	s
American elm	1.7	1.7	.0	.0	3.4	71	29
Blueberries	22.0	126.1	3.4	.0	151.5	43	s
Sweetfern	55.4	50.1	95.5	.0	201.0	42	s
Maple-leaf viburnum	33.3	3.4	27.6	.0	64.3	57	s
Wild raisin	18.9	25.9	.0	.0	44.8	41	s
Total commonly browsed	12,447.0	7,737.9	5,920.4	.0	26,105.3	6	
Tamarack	3.5	22.4	21.5	.0	47.4	48	26
White spruce	87.3	49.8	30.0	.0	167.1	18	29
Black spruce	29.6	139.8	81.5	.0	250.9	27	25
Red spruce	519.0	180.6	104.9	.0	804.5	11	15
Speckled alder	308.4	372.1	146.8	.0	827.3	23	s
Gray birch	5.2	.0	.0	.0	5.2	100	33
Lambkill	49.4	504.1	329.1	.0	882.6	38	s
Eastern hophornbeam	14.1	13.7	.0	.0	27.8	45	44
Spiraea	.0	17.9	169.4	.0	187.3	80	s
Total infrequently browsed	1,016.5	1,300.4	883.2	.0	3,200.1	15	
Red ash	10.3	5.2	.0	.0	15.5	46	s
Witch-hazel	8.5	.0	.0	.0	8.5	83	s
Gooseberries	1,102.9	665.3	111.3	.0	1,879.5	24	s
Total questionable	1,121.7	670.5	111.3	.0	1,903.5	23	
Unclassified species	799.2	581.2	396.2	.0	1,776.6	13	
Total all species	20,081.8	12,215.0	7,921.6	.0	40,218.4	4	
Sampling error (percent)	7	10	17		4		

[a] Classed as shrub species.

Table 20.—Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Aroostook County, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group					All groups
	White/ red pine	Spruce/ fir	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Canada yew	.0	5.2	.0	.0	.0	5.2
Northern white-cedar	3.4	1,366.7	20.4	8.8	38.5	1,437.8
Eastern hemlock	27.5	44.1	.0	23.5	.0	95.1
Striped maple	12.1	352.1	22.4	536.9	20.3	943.8
Red maple	43.1	1,119.9	36.2	642.4	260.5	2,102.1
Mountain maple	5.2	954.9	13.7	281.8	243.2	1,498.8
Apple	.0	.0	.0	10.6	1.7	12.3
Staghorn sumac	.0	10.3	.0	.0	.0	10.3
Mountain ash	.0	73.1	.0	.0	.0	73.1
Hobblebush viburnum	.0	138.4	.0	912.6	3.4	1,054.4
Total readily browsed	91.3	4,064.7	92.7	2,416.6	567.6	7,232.9
Balsam fir	123.8	4,173.0	27.7	747.3	475.2	5,547.0
White pine	3.4	13.6	.0	1.7	1.7	20.4
Sugar maple	19.0	466.6	15.5	1,827.8	34.6	2,363.5
Shadbush	.0	30.6	3.3	12.2	21.2	67.3
Yellow birch	20.6	642.0	3.4	426.7	19.0	1,111.7
Paper birch	41.2	271.7	.0	82.0	116.1	511.0
Red-osier dogwood	.0	193.0	176.2	336.4	180.8	886.4
Hawthorn	.0	1.7	.0	12.3	.0	14.0
American hazelnut	.0	241.5	32.1	90.7	76.0	440.3
Beaked hazelnut	.0	249.4	.0	211.6	289.7	750.7
Beech	17.3	48.0	.0	904.5	8.6	978.4
White ash	3.4	54.8	6.9	39.0	17.3	121.4
Black ash	.0	128.5	3.4	11.4	14.0	157.3
Huckleberries	.0	15.5	.0	.0	.0	15.5
Honeysuckle	.0	239.0	.0	22.3	67.7	329.0
Mountain holly	.0	15.5	.0	.0	.0	15.5
Balsam poplar	.0	232.6	.0	62.8	184.5	479.9
Bigtooth aspen	.0	1.7	.0	.0	3.5	5.2
Quaking aspen	.0	102.9	34.6	168.3	310.0	615.8
Pin cherry	.0	70.6	.0	112.1	1.2	183.9
Black cherry	.0	10.4	.0	1.7	53.5	65.6
Chokecherry	.0	24.2	.0	67.1	31.1	122.4
Brambles	29.4	7,130.0	283.7	2,539.0	479.8	10,461.9
Willows	.0	105.9	8.9	24.3	150.5	289.6
Common elderberry	.0	29.5	.0	12.2	.0	41.7
Red-berried elder	.0	26.0	.0	18.9	.0	44.9
American elm	.0	1.7	1.7	.0	.0	3.4
Blueberries	.0	120.6	.0	.0	30.9	151.5
Sweetfern	.0	147.4	.0	3.5	50.1	201.0
Maple-leaf viburnum	.0	21.3	27.6	1.7	13.7	64.3
Wild raisin	1.7	27.8	.0	8.4	6.9	44.8
Total commonly browsed	259.8	14,837.0	625.0	7,745.9	2,637.6	26,105.3

Table 20.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group					All groups
	White/ red pine	Spruce/ fir	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Tamarack	.0	42.0	1.8	.0	3.6	47.4
White spruce	5.2	117.0	.0	29.3	15.6	167.1
Black spruce	.0	249.2	.0	.0	1.7	250.9
Red spruce	22.3	629.8	.0	141.9	10.5	804.5
Speckled alder	.0	624.3	23.4	29.3	150.3	827.3
Gray birch	.0	.0	.0	.0	5.2	5.2
Lambkill	.0	882.6	.0	.0	.0	882.6
Eastern hophornbeam	.0	3.5	3.4	19.2	1.7	27.8
Spiraea	.0	17.9	.0	.0	169.4	187.3
Total infrequently browsed	27.5	2,566.3	28.6	219.7	358.0	3,200.1
Red ash	.0	12.0	.0	.0	3.5	15.5
Witch-hazel	.0	8.5	.0	.0	.0	8.5
Gooseberries	84.1	978.0	6.9	544.2	266.3	1,879.5
Total questionable	84.1	998.5	6.9	544.2	269.8	1,903.5
Unclassified species	1.7	1,180.6	117.5	127.3	349.5	1,776.6
Total all species	464.4	23,647.1	870.7	11,053.7	4,182.5	40,218.4
Sampling error (percent)	53	7	61	11	16	4

Table 21.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Aroostook County, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Canada yew	5.2	.0	.0	.0	5.2
Northern white-cedar	1,406.7	31.1	.0	.0	1,437.8
Eastern hemlock	91.7	3.4	.0	.0	95.1
Striped maple	748.4	155.9	19.0	20.5	943.8
Red maple	1,480.8	508.8	97.2	15.3	2,102.1
Mountain maple	965.9	450.3	67.1	15.5	1,498.8
Apple	3.6	7.0	1.7	.0	12.3
Staghorn sumac	10.3	.0	.0	.0	10.3
Mountain ash	62.8	8.7	.0	1.6	73.1
Hobblebush viburnum	757.8	256.9	39.7	.0	1,054.4
Total readily browsed	5,533.2	1,422.1	224.7	52.9	7,232.9
Balsam fir	5,199.6	191.1	152.8	3.5	5,547.0
White pine	18.7	1.7	.0	.0	20.4
Sugar maple	1,725.6	583.6	39.3	15.0	2,363.5
Shadbush	60.5	3.4	3.4	.0	67.3
Yellow birch	869.2	203.2	34.1	5.2	1,111.7
Paper birch	432.6	73.2	5.2	.0	511.0
Red-osier dogwood	419.8	319.8	50.1	96.7	886.4
Hawthorn	14.0	.0	.0	.0	14.0
American hazelnut	207.9	218.5	12.2	1.7	440.3
Beaked hazelnut	573.3	158.5	18.9	.0	750.7
Beech	835.2	131.8	8.1	3.3	978.4
White ash	90.8	27.4	3.2	.0	121.4
Black ash	128.0	17.4	3.3	8.6	157.3
Huckleberries	12.0	3.5	.0	.0	15.5
Honeysuckle	225.0	90.3	10.3	3.4	329.0
Mountain holly	15.5	.0	.0	.0	15.5
Balsam poplar	244.0	51.4	54.9	129.6	479.9
Bigtooth aspen	5.2	.0	.0	.0	5.2
Quaking aspen	469.9	125.9	20.0	.0	615.8
Pin cherry	161.9	22.0	.0	.0	183.9
Black cherry	15.8	37.4	12.4	.0	65.6
Chokecherry	86.1	31.1	1.8	3.4	122.4
Brambles	9,641.5	820.4	.0	.0	10,461.9
Willows	228.9	15.6	34.7	10.4	289.6
Common elderberry	31.0	8.9	1.8	.0	41.7
Red-berried elder	12.2	18.9	.0	13.8	44.9
American elm	3.4	.0	.0	.0	3.4
Blueberries	132.5	19.0	.0	.0	151.5
Sweetfern	192.4	8.6	.0	.0	201.0
Maple-leaf viburnum	64.3	.0	.0	.0	64.3
Wild raisin	44.8	.0	.0	.0	44.8
Total commonly browsed	22,161.6	3,182.6	466.5	294.6	26,105.3

Table 21.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	28.3	17.3	.0	1.8	47.4
White spruce	158.4	7.0	.0	1.7	167.1
Black spruce	250.9	.0	.0	.0	250.9
Red spruce	769.4	28.0	7.1	.0	804.5
Speckled alder	624.5	189.1	13.7	.0	827.3
Gray birch	5.2	.0	.0	.0	5.2
Lambkill	875.7	.0	6.9	.0	882.6
Eastern hophornbeam	27.8	.0	.0	.0	27.8
Spiraea	187.3	.0	.0	.0	187.3
Total infrequently browsed	2,927.5	241.4	27.7	3.5	3,200.1
Red ash	13.9	1.6	.0	.0	15.5
Witch-hazel	6.9	1.6	.0	.0	8.5
Gooseberries	1,839.8	39.7	.0	.0	1,879.5
Total questionable	1,860.6	42.9	.0	.0	1,903.5
Unclassified species	1,096.8	511.3	82.4	86.1	1,776.6
Total all species	33,579.7	5,400.3	801.3	437.1	40,218.4
Sampling error (percent)	5	10	17	34	4

Table 22.--Area of timberland by forest type, forest-type group, and stand-size class, Capital Region, Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
White pine	166.7	39.4	16.2	.0	222.3
White pine/hemlock	48.1	20.1	.0	.0	68.2
Hemlock	52.1	12.2	4.0	.0	68.3
White/red pine group	266.9	71.7	20.2	.0	358.8
Balsam fir	.0	35.6	27.7	.0	63.3
Red spruce	39.3	10.6	.0	.0	49.9
Red spruce/balsam fir	23.3	31.4	3.9	.0	58.6
White spruce	4.0	8.0	.0	.0	12.0
Northern white-cedar	16.3	24.2	4.0	.0	44.5
Tamarack	4.0	7.7	3.8	.0	15.5
Spruce/fir group	86.9	117.5	39.4	.0	243.8
White pine/no. red oak/white ash	.0	4.0	.0	.0	4.0
Oak/pine group	.0	4.0	.0	.0	4.0
Northern red oak	35.1	27.8	12.2	.0	75.1
Hawthorn/reverting field	3.9	.0	.0	.0	3.9
Oak/hickory group	39.0	27.8	12.2	.0	79.0
Black ash/Amer. elm/red maple	.0	12.1	.0	.0	12.1
Amer. elm/green ash	4.0	11.6	4.0	.0	19.6
Elm/ash/red maple group	4.0	23.7	4.0	.0	31.7
Sugar maple/beech/yellow birch	12.0	55.7	16.2	.0	83.9
Red maple/northern hardwoods	69.0	96.8	20.4	.0	186.2
Pin cherry/reverting field	.0	.0	16.3	.0	16.3
Mixed northern hardwoods	20.2	16.0	.0	.0	36.2
Northern hardwoods group	101.2	168.5	52.9	.0	322.6
Aspen	4.0	61.0	7.9	.0	72.9
Paper birch	.0	24.0	4.0	.0	28.0
Gray birch	.0	11.6	.0	.0	11.6
Aspen/birch group	4.0	96.6	11.9	.0	112.5
All forest types	502.0	509.8	140.6	.0	1,152.4

Table 23.--Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Capital Region, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Serviceberry	25	0	0	0	0	0	0	0	0	0	25	100
Beech	4,001	2,430	1,050	552	128	68	27	6	27	0	8,289	18
Apple	532	297	61	50	0	16	0	0	16	0	972	49
Eastern hophornbeam	444	323	0	15	0	0	0	0	0	0	782	31
Pin cherry	266	265	22	0	0	0	0	0	0	0	553	50
Black cherry	917	452	170	39	0	0	0	0	0	0	1,578	23
White oak	89	57	0	0	0	0	14	0	0	0	160	52
Northern red oak	5,225	3,716	2,093	1,575	588	390	184	106	69	6	13,952	14
Total, all species	11,499	7,540	3,396	2,231	716	474	225	112	112	6	26,311	10
Sampling error (percent)	12	12	17	17	22	22	28	43	35	74	10	

Table 24.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Capital Region, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	108,956	374,566	955,100	115,158	1,553,780
Saplings	25,194	146,877	13,782	0	185,853
Total sawtimber	134,150	521,443	968,882	115,158	1,739,633
Poletimber:					
Shrubs	125,665	700,841	1,714,400	312,947	2,853,853
Saplings	56,864	501,479	9,847	0	568,190
Total poletimber	182,529	1,202,320	1,724,247	312,947	3,422,043
Sapling/seedling:					
Shrubs	13,698	222,517	655,549	19,465	911,229
Saplings	14,220	78,913	4,219	0	97,352
Total sapling/seedling	27,918	301,430	659,768	19,465	1,008,581
Nonstocked:					
Shrubs	0	0	0	0	0
Saplings	0	0	0	0	0
Total nonstocked	0	0	0	0	0
Total, all classes	344,597	2,025,193	3,352,897	447,570	6,170,257

Table 25.--Number of standing dead trees on timberland by species, condition class, and diameter class, Capital Region, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0-10.9	11.0-14.9	15+	Total	5.0-10.9	11.0-14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	899	30	0	929	4,952	92	0	5,044	5,973	15
Tamarack	48	45	0	93	75	15	0	90	183	49
White spruce	28	0	0	28	28	0	0	28	56	100
Black spruce	0	0	0	0	0	0	0	0	0	0
Red spruce	546	71	0	617	603	45	10	658	1,275	27
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	556	55	8	619	1,205	229	148	1,582	2,201	20
Northern white-cedar	922	51	0	973	549	74	0	623	1,596	30
Hemlock	0	0	0	0	188	12	30	230	230	77
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	2,999	252	8	3,259	7,600	467	188	8,255	11,514	10
Sugar maple	29	0	0	29	50	0	0	50	79	58
Red maple	56	42	0	98	675	93	88	856	954	22
Yellow birch	0	14	0	14	291	15	0	306	320	
Paper birch	222	0	0	222	721	26	0	747	969	27
Gray birch	474	0	0	474	834	0	0	834	1,308	25
Beech	0	15	0	15	45	0	13	58	73	83
White ash	23	0	0	23	51	0	0	51	74	75
Black ash	0	0	0	0	86	0	18	104	104	85
Aspen	494	15	0	509	1,132	31	0	1,163	1,672	20
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	334	60	0	394	103	0	0	103	497	61
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	218	82	66	366	595	91	89	775	1,141	31
Other hardwoods	254	15	0	269	775	19	29	823	1,092	26
Total hardwoods	2,104	243	66	2,413	5,358	275	237	5,870	8,283	10
Total, all species	5,103	495	74	5,672	12,958	742	425	14,125	19,797	7
Sampling error (percent)	12	26	66	12	9	17	22	8	7	

Table 26.--Number of trees with observed cavities on timberland by species and condition class, Capital Region, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		live top	top	top		top	top			
	Thousand trees									Percent
Balsam fir	113	117	0	0	230	184	427	611	841	28
Tamarack	16	16	0	0	32	0	0	0	32	100
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	0	29	0	0	29	0	0	0	29	100
Red spruce	67	50	0	0	117	22	36	58	175	38
Red pine	0	17	0	0	17	0	0	0	17	100
White pine	102	10	0	11	123	0	211	211	334	28
Northern white-cedar	45	431	0	66	542	125	161	286	828	34
Hemlock	90	122	0	0	212	0	15	15	227	32
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	433	792	0	77	1,302	331	850	1,181	2,483	16
Sugar maple	105	211	0	5	321	0	50	50	371	33
Red maple	962	1,473	11	30	2,476	27	279	306	2,782	16
Yellow birch	11	114	0	0	125	0	139	139	264	41
Paper birch	354	135	0	22	511	64	284	348	859	27
Gray birch	0	76	0	30	106	32	31	63	169	48
Beech	133	606	0	0	739	14	6	20	759	31
White ash	41	0	16	0	57	0	0	0	57	63
Black ash	0	0	0	0	0	0	39	39	39	85
Aspen	119	255	30	0	404	0	43	43	447	38
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	183	159	0	0	342	0	0	0	342	41
Basswood	64	79	0	0	143	0	0	0	143	69
Elm	0	0	0	0	0	15	42	57	57	60
Other hardwoods	162	264	0	0	426	69	180	249	675	29
Total hardwoods	2,134	3,372	57	87	5,650	221	1,093	1,314	6,964	10
Total, all species	2,567	4,164	57	164	6,952	552	1,943	2,495	9,447	9
Sampling error (percent)	15	12	63	42		33	18		9	

Table 27.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Capital Region, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Northern white-cedar	11.9	71.5	.0	.0	83.4	31	27
Eastern hemlock	30.2	48.7	.7	.0	79.6	18	31
Striped maple	16.6	55.2	105.5	.0	177.3	51	13
Red maple	85.8	323.5	74.2	.0	483.5	11	28
Mountain maple	16.6	25.6	.7	.0	42.9	30	10
Apple	3.8	3.5	1.6	.0	8.9	36	18
Staghorn sumac	4.2	1.9	3.5	.0	9.6	53	s[a]
Mountain ash	.0	13.0	.0	.0	13.0	100	s
Hobblebush viburnum	.0	3.7	.0	.0	3.7	80	s
Total readily browsed	169.1	546.6	186.2	.0	901.9	13	
Balsam fir	248.4	673.3	103.6	.0	1,025.3	8	25
Juniper	340.2	195.2	3.7	.0	539.1	43	s
White pine	21.9	31.7	7.5	.0	61.1	17	45
Sugar maple	8.1	69.3	18.5	.0	95.9	28	22
Shadbush	2.7	1.3	.0	.0	4.0	60	s
Yellow birch	34.0	40.5	9.4	.0	83.9	28	23
Paper birch	27.6	125.3	48.9	.0	201.8	21	18
Red-osier dogwood	.9	52.5	.9	.0	54.3	62	s
Hawthorn	4.8	12.3	1.7	.0	18.8	53	4
American hazelnut	20.3	5.1	.0	.0	25.4	75	s
Beaked hazelnut	88.7	120.6	13.7	.0	223.0	20	s
Beech	29.3	84.3	99.3	.0	212.9	30	23
White ash	69.6	138.7	15.2	.0	223.5	17	9
Black ash	.0	6.2	1.8	.0	8.0	41	8
Huckleberries	.0	20.4	.0	.0	20.4	91	s
Winterberry	2.6	25.4	24.1	.0	52.1	53	s
Honeysuckle	23.9	52.7	.0	.0	76.6	45	s
Mountain holly	.0	5.9	.0	.0	5.9	100	s
Balsam poplar	.0	.9	.0	.0	.9	100	0
Bigtooth aspen	23.0	8.8	14.2	.0	46.0	33	23
Quaking aspen	51.3	72.4	57.7	.0	181.4	26	16
Pin cherry	55.7	64.7	20.1	.0	140.5	22	4
Black cherry	59.6	44.7	45.8	.0	150.1	26	8
Chokecherry	34.6	58.7	56.7	.0	150.0	39	s
White oak	.0	1.9	.0	.0	1.9	62	33
Roses	.0	4.2	.6	.0	4.8	75	s
Brambles	440.7	883.7	545.2	.0	1,869.6	18	s

Table 27.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Willows	1.8	11.2	.0	.0	13.0	56	13
Common elderberry	2.7	4.5	4.6	.0	11.8	50	s
American elm	.9	7.0	.9	.0	8.8	49	30
Blueberries	13.8	76.2	39.7	.0	129.7	36	s
Sweetfern	.0	24.8	2.0	.0	26.8	39	s
Maple-leaf viburnum	.0	25.9	1.6	.0	27.5	56	s
Wild raisin	2.6	22.4	9.1	.0	34.1	39	s
Total commonly browsed	1,609.7	2,972.7	1,146.5	.0	5,728.9	9	
Tamarack	.0	.0	1.5	.0	1.5	72	33
White spruce	1.8	7.8	.0	.0	9.6	45	25
Black spruce	.0	.0	7.2	.0	7.2	100	0
Red spruce	40.8	44.8	3.0	.0	88.6	20	29
Speckled alder	14.2	80.5	103.3	.0	198.0	30	s
Gray birch	36.1	121.3	3.4	.0	160.8	19	27
Lambkill	.3	9.3	7.9	.0	17.5	70	s
Labrador tea	.0	.0	15.8	.0	15.8	100	s
Eastern hophornbeam	14.6	11.3	6.1	.0	32.0	28	36
Red oak	51.6	57.3	34.6	.0	143.5	17	s
Spiraea	249.0	453.7	58.3	.0	761.0	22	s
Total infrequently browsed	408.4	786.0	241.1	.0	1,435.5	13	
Red ash	60.3	64.5	9.8	.0	134.6	31	s
Witch-hazel	22.8	17.8	8.5	.0	49.1	40	s
Gooseberries	.0	59.9	3.3	.0	63.2	67	s
Total questionable	83.1	142.2	21.6	.0	246.9	25	
Unclassified species	347.7	759.3	73.1	.0	1,180.1	15	
Total all species	2,618.0	5,206.8	1,668.5	.0	9,493.3	7	
Sampling error (percent)	17	10	23		7		

[a] Classed as shrub species.

Table 28.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Capital Region, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group							All groups
	White/ red pine	Spruce/ fir	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	20.5	41.0	.0	5.9	3.4	7.5	5.1	83.4
Eastern hemlock	41.2	7.9	.0	3.4	.0	27.1	.0	79.6
Striped maple	31.6	.0	.0	10.0	.0	135.7	.0	177.3
Red maple	124.0	99.1	.0	26.4	6.2	175.8	52.0	483.5
Mountain maple	16.5	5.2	.0	8.8	.0	11.5	.9	42.9
Apple	3.5	.0	.0	.3	.0	2.5	2.6	8.9
Staghorn sumac	4.4	3.3	.0	.0	.0	1.9	.0	9.6
Mountain ash	.0	.0	.0	.0	.0	13.0	.0	13.0
Hobblebush viburnum	.0	.9	.0	.0	.0	2.8	.0	3.7
Total readily browsed	241.7	157.4	.0	54.8	9.6	377.8	60.6	901.9
Balsam fir	263.8	389.3	.0	29.8	4.2	232.3	105.9	1,025.3
Juniper	381.2	52.5	.0	91.8	.0	1.0	12.6	539.1
White pine	31.1	.8	.0	9.5	1.3	13.8	4.6	61.1
Sugar maple	45.1	4.4	.0	.0	.9	40.1	5.4	95.9
Shadbush	.8	.0	.0	3.2	.0	.0	.0	4.0
Yellow birch	24.3	3.8	.0	.9	.0	53.3	1.6	83.9
Paper birch	42.7	41.5	28.3	3.1	2.1	61.9	22.2	201.8
Red-osier dogwood	.9	1.0	.0	2.8	.0	.0	49.6	54.3
Hawthorn	14.9	.0	.0	1.4	.0	2.5	.0	18.8
American hazelnut	18.6	.0	.0	1.8	.0	.8	4.2	25.4
Beaked hazelnut	85.4	14.8	.0	41.0	6.8	46.7	28.3	223.0
Beech	23.3	1.7	.0	25.3	.7	152.2	9.7	212.9
White ash	87.0	12.0	.0	6.0	2.6	75.2	40.7	223.5
Black ash	.0	.8	.0	.0	2.1	2.6	2.5	8.0
Huckleberries	2.0	18.4	.0	.0	.0	.0	.0	20.4
Winterberry	15.5	7.0	.0	1.8	.0	26.9	.9	52.1
Honeysuckle	9.6	33.6	.0	3.7	.0	29.0	.7	76.6
Mountain holly	.0	5.9	.0	.0	.0	.0	.0	5.9
Balsam poplar	.0	.0	.0	.0	.0	.0	.9	.9
Bigtooth aspen	9.9	3.2	.0	5.1	.0	19.3	8.5	46.0
Quaking aspen	85.0	7.7	.0	1.0	2.4	35.7	49.6	181.4
Pin cherry	72.1	14.5	.7	2.1	4.4	32.9	13.8	140.5
Black cherry	46.0	4.5	.0	27.0	17.6	48.3	6.7	150.1
Chokecherry	79.5	.0	.0	9.8	20.6	9.1	31.0	150.0
White oak	.0	.0	.0	.7	.0	.9	.3	1.9
Roses	.0	.7	.0	.0	3.5	.6	.0	4.8
Brambles	637.8	235.9	.0	194.6	44.8	694.3	62.2	1,869.6

Table 28.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group							All groups
	White/ red pine	Spruce/ fir	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Willows	7.7	.9	.0	.0	.0	.9	3.5	13.0
Common elderberry	5.5	.0	.0	.0	.0	3.8	2.5	11.8
American elm	4.2	.9	.0	.0	.0	.9	2.8	8.8
Blueberries	13.0	21.9	.0	17.5	.0	67.1	10.2	129.7
Sweetfern	1.7	5.7	.0	.0	1.0	3.6	14.8	26.8
Maple-leaf viburnum	1.0	.7	13.1	5.9	.0	.9	5.9	27.5
Wild raisin	.9	10.3	.0	2.6	.0	7.1	13.2	34.1
Total commonly browsed	2,010.5	894.4	42.1	488.4	115.0	1,663.7	514.8	5,728.9
Tamarack	.0	1.5	.0	.0	.0	.0	.0	1.5
White spruce	.6	6.3	.0	1.8	.0	.9	.0	9.6
Black spruce	.0	.0	.0	.0	.0	7.2	.0	7.2
Red spruce	19.2	51.8	.0	3.8	1.2	12.3	.3	88.6
Speckled alder	36.3	53.8	.0	.0	.0	92.0	15.9	198.0
Gray birch	60.4	46.3	.0	4.4	.7	21.1	27.9	160.8
Lambkill	.0	7.9	.0	.0	.0	9.6	.0	17.5
Labrador tea	.0	.0	.0	.0	.0	15.8	.0	15.8
Eastern hophornbeam	11.5	2.6	.0	6.0	1.3	7.3	3.3	32.0
Red oak	57.8	9.9	.0	28.6	1.8	34.3	11.1	143.5
Spiraea	351.3	150.5	.0	.3	20.5	100.9	137.5	761.0
Total infrequently browsed	537.1	330.6	.0	44.9	25.5	301.4	196.0	1,435.5
Red ash	87.5	4.5	.0	3.0	29.0	10.6	.0	134.6
Witch-hazel	1.7	4.9	.0	22.3	.0	20.2	.0	49.1
Gooseberries	43.6	.0	.0	6.5	.0	7.1	6.0	63.2
Total questionable	132.8	9.4	.0	31.8	29.0	37.9	6.0	246.9
Unclassified species	434.3	142.6	.0	54.8	62.1	338.6	147.7	1,180.1
Total all species	3,356.4	1,534.4	42.1	674.7	241.2	2,719.4	925.1	9,493.3
Sampling error (percent)	15	17	100	40	39	16	23	7

Table 29.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Capital Region, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	81.7	1.7	.0	.0	83.4
Eastern hemlock	76.1	2.7	.8	.0	79.6
Striped maple	164.0	10.3	3.0	.0	177.3
Red maple	313.0	110.4	35.4	24.7	483.5
Mountain maple	26.5	9.4	7.0	.0	42.9
Apple	7.1	1.5	.3	.0	8.9
Staghorn sumac	6.3	3.3	.0	.0	9.6
Mountain ash	13.0	.0	.0	.0	13.0
Hobblebush viburnum	2.8	.9	.0	.0	3.7
Total readily browsed	690.5	140.2	46.5	24.7	901.9
Balsam fir	1,021.4	3.0	.9	.0	1,025.3
Juniper	534.5	4.6	.0	.0	539.1
White pine	59.8	1.3	.0	.0	61.1
Sugar maple	85.7	9.3	.9	.0	95.9
Shadbush	4.0	.0	.0	.0	4.0
Yellow birch	65.1	18.8	.0	.0	83.9
Paper birch	137.8	43.1	20.9	.0	201.8
Red-osier dogwood	24.5	14.1	15.7	.0	54.3
Hawthorn	18.8	.0	.0	.0	18.8
American hazelnut	25.4	.0	.0	.0	25.4
Beaked hazelnut	174.0	46.3	2.7	.0	223.0
Beech	137.0	61.4	1.6	12.9	212.9
White ash	187.6	24.5	11.4	.0	223.5
Black ash	8.0	.0	.0	.0	8.0
Huckleberries	.0	20.4	.0	.0	20.4
Winterberry	52.1	.0	.0	.0	52.1
Honeysuckle	56.4	1.7	18.5	.0	76.6
Mountain holly	5.9	.0	.0	.0	5.9
Balsam poplar	.9	.0	.0	.0	.9
Bigtooth aspen	34.1	11.6	.3	.0	46.0
Quaking aspen	125.1	51.7	4.6	.0	181.4
Pin cherry	117.1	20.6	2.8	.0	140.5
Black cherry	132.7	17.1	.3	.0	150.1
Chokecherry	126.7	23.3	.0	.0	150.0
White oak	1.9	.0	.0	.0	1.9
Roses	4.8	.0	.0	.0	4.8
Brambles	1,758.3	107.8	3.5	.0	1,869.6
Willows	5.3	7.7	.0	.0	13.0
Common elderberry	11.8	.0	.0	.0	11.8
American elm	7.9	.9	.0	.0	8.8
Blueberries	77.4	9.4	42.9	.0	129.7
Sweetfern	25.9	.0	.9	.0	26.8
Maple-leaf viburnum	26.8	.7	.0	.0	27.5
Wild raisin	24.5	9.6	.0	.0	34.1
Total commonly browsed	5,079.2	508.9	127.9	12.9	5,728.9

Table 29.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	1.5	.0	.0	.0	1.5
White spruce	9.6	.0	.0	.0	9.6
Black spruce	7.2	.0	.0	.0	7.2
Red spruce	87.8	.8	.0	.0	88.6
Speckled alder	168.2	28.8	1.0	.0	198.0
Gray birch	90.8	42.1	17.0	10.9	160.8
Lambkill	14.5	3.0	.0	.0	17.5
Labrador tea	15.8	.0	.0	.0	15.8
Eastern hophornbeam	29.6	2.4	.0	.0	32.0
Red oak	94.7	23.4	25.1	.3	143.5
Spiraea	641.5	108.9	9.7	.9	761.0
Total infrequently browsed	1,161.2	209.4	52.8	12.1	1,435.5
Red ash	121.7	12.9	.0	.0	134.6
Witch-hazel	42.9	6.2	.0	.0	49.1
Gooseberries	63.2	.0	.0	.0	63.2
Total questionable	227.8	19.1	.0	.0	246.9
Unclassified species	888.1	238.3	51.9	1.8	1,180.1
Total all species	8,046.8	1,115.9	279.1	51.5	9,493.3
Sampling error (percent)	8	13	21	41	7

Table 30.--Area of timberland by forest type, forest-type group, and stand-size class, Casco Bay, Maine, 1982 (Powell and Dickson 1984)

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
Red pine	4.2	.0	.0	.0	4.2
White pine	279.5	75.8	25.0	.0	380.3
White pine/hemlock	122.4	50.8	8.3	.0	181.5
Hemlock	92.4	12.7	8.0	.0	113.1
White/red pine group	498.5	139.3	41.3	.0	679.1
Balsam fir	4.3	4.3	4.3	.0	12.9
Red spruce	8.2	.0	.0	.0	8.2
Red spruce/balsam fir	.0	8.3	.0	.0	8.3
White spruce	.0	.0	.0	5.0	5.0
Tamarack	4.4	.0	.0	.0	4.4
Spruce/fir group	16.9	12.6	4.3	5.0	38.8
Pitch pine	4.1	.0	4.2	.0	8.3
Loblolly/shortleaf group	4.1	.0	4.2	.0	8.3
White pine/no. red oak/wh. ash	4.9	16.7	.0	.0	21.6
Oak/pine group	4.9	16.7	.0	.0	21.6
Post, black or bear oak	.0	4.2	.0	.0	4.2
White oak	4.2	.0	.0	.0	4.2
Northern red oak	21.8	42.2	7.9	.0	71.9
Red maple/central hardwoods	12.5	12.7	7.9	.0	33.1
Mixed central hardwoods	8.4	12.5	.0	.0	20.9
Oak/hickory group	46.9	71.6	15.8	.0	134.3
Black ash/Amer. elm/red maple	3.7	8.5	4.5	.0	16.7
Willow	.0	.0	4.0	.0	4.0
Elm/ash/red maple group	3.7	8.5	8.5	.0	20.7
Sugar maple/beech/yellow birch	8.4	29.7	4.3	.0	42.4
Red maple/northern hardwoods	51.6	74.9	16.2	.0	142.7
Pin cherry/reverting field	.0	.0	17.3	.0	17.3
Mixed northern hardwoods	17.1	38.0	8.5	.0	63.6
Northern hardwoods group	77.1	142.6	46.3	.0	266.0
Aspen	4.3	38.2	22.2	.0	64.7
Paper birch	.0	12.8	.0	.0	12.8
Gray birch	4.2	.0	8.3	.0	12.5
Aspen/birch group	8.5	51.0	30.5	.0	90.0
All forest types	660.6	442.3	150.9	5.0	1,258.8

Table 31.—Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Casco Bay, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Eastern redcedar	31	0	0	0	0	0	0	0	0	0	31	100
Hickory	31	0	0	0	0	0	0	0	0	0	31	100
Beech	3,466	2,176	635	481	194	93	57	25	31	0	7,158	17
Apple	151	62	73	0	0	0	0	0	0	0	286	40
Blackgum	32	0	0	0	17	0	0	0	0	0	49	73
Eastern hophornbeam	484	28	31	0	0	0	0	0	0	0	543	48
Pin cherry	167	60	0	0	0	0	0	0	0	0	227	47
Black cherry	540	311	48	27	12	0	16	0	0	0	954	33
White oak	1,596	718	259	57	90	75	14	43	10	31	2,893	21
Scarlet oak	0	0	31	0	0	0	0	0	0	0	31	100
Northern red oak	10,052	7,350	2,850	1,782	1,163	371	276	151	53	11	24,059	11
Black oak	1,499	854	268	152	48	16	0	0	17	0	2,854	27
Total, all species	18,049	11,559	4,195	2,499	1,524	555	363	219	111	42	39,116	8
Sampling error (percent)	10	12	11	12	15	19	22	28	36	57	8	

Table 32.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Casco Bay, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	70,287	563,403	1,404,326	165,020	2,203,036
Saplings	33,278	254,605	10,394	918	299,195
Total sawtimber	103,565	818,008	1,414,720	165,938	2,502,231
Poletimber:					
Shrubs	140,587	676,373	1,239,771	367,407	2,424,138
Saplings	80,613	375,145	2,726	531	459,015
Total poletimber	221,200	1,051,518	1,242,497	367,938	2,883,153
Sapling/seedling:					
Shrubs	63,322	370,896	797,748	137,066	1,369,032
Saplings	23,341	133,259	8,756	0	165,356
Total sapling/seedling	86,663	504,155	806,504	137,066	1,534,388
Nonstocked:					
Shrubs	0	127,015	17,452	31,027	175,494
Saplings	0	0	0	0	0
Total nonstocked	0	127,015	17,452	31,027	175,494
Total, all classes	411,428	2,500,696	3,481,173	701,969	7,095,266

Table 33.—Number of standing dead trees on timberland by species, condition class, and diameter class, Casco Bay, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0–10.9	11.0–14.9	15+	Total	5.0–10.9	11.0–14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	817	31	0	848	1,636	31	0	1,667	2,515	22
Tamarack	0	0	0	0	50	0	0	50	50	100
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	29	0	0	29	0	0	0	0	29	100
Red spruce	436	0	0	436	441	34	0	475	911	36
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	1,357	51	111	1,519	2,035	226	98	2,359	3,878	18
Northern white-cedar	37	0	0	37	18	0	0	18	55	100
Hemlock	423	43	6	472	382	103	44	529	1,001	22
Other softwoods	152	21	0	173	284	15	0	299	472	57
Total softwoods	3,251	146	117	3,514	4,846	409	142	5,397	8,911	11
Sugar maple	0	0	0	0	58	15	0	73	73	60
Red maple	262	16	13	291	906	20	85	1,011	1,302	22
Yellow birch	0	15	0	15	58	0	0	58	73	60
Paper birch	18	0	0	18	90	61	0	151	169	41
Gray birch	93	0	0	93	679	0	0	679	772	28
Beech	0	0	0	0	223	0	0	223	223	48
White ash	58	0	0	58	30	0	28	58	116	79
Black ash	29	0	0	29	162	16	0	178	207	59
Aspen	367	0	0	367	823	16	0	839	1,206	28
White oaks	28	0	0	28	0	15	0	15	43	74
Red oaks	22	0	0	22	212	0	7	219	241	39
Basswood	0	0	0	0	26	0	0	26	26	100
Elm	75	9	0	84	294	110	26	430	514	37
Other hardwoods	224	0	0	224	126	0	20	146	370	43
Total hardwoods	1,176	40	13	1,229	3,687	253	166	4,106	5,335	11
Total, all species	4,427	186	130	4,743	8,533	662	308	9,503	14,246	8
Sampling error (percent)	13	30	36	12	10	19	226	10	8	

Table 34.--Number of trees with observed cavities on timberland by species and condition class, Casco Bay, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	Thousand trees									Percent
Balsam fir	47	22	0	0	69	31	159	190	259	43
Tamarack	0	0	0	0	0	0	0	0	0	0
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	0	0	0	0	0	0	0	0	0	0
Red spruce	0	0	0	0	0	0	18	18	18	100
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	104	300	0	14	418	37	385	422	840	21
Northern white-cedar	0	0	0	0	0	0	0	0	0	0
Hemlock	31	178	0	0	209	0	313	313	522	27
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	182	500	0	14	696	68	875	943	1,639	15
Sugar maple	51	82	0	0	133	0	31	31	164	45
Red maple	748	1,262	15	0	2,025	62	485	547	2,572	15
Yellow birch	0	103	0	0	103	0	0	0	103	52
Paper birch	30	181	0	0	211	0	34	34	245	52
Gray birch	31	62	0	0	93	0	31	31	124	50
Beech	363	434	0	0	797	0	117	117	914	27
White ash	15	0	0	0	15	0	31	31	46	74
Black ash	0	0	0	0	0	0	0	0	0	0
Aspen	73	32	0	0	105	0	31	31	136	46
White oaks	0	88	0	0	88	0	16	16	104	51
Red oaks	223	166	0	0	389	0	7	7	396	28
Basswood	0	0	0	0	0	0	26	26	26	100
Elm	0	15	0	0	15	0	134	134	149	43
Other hardwoods	63	97	16	0	176	0	31	31	207	39
Total hardwoods	1,597	2,522	31	0	4,150	62	974	1,036	5,186	10
Total, all species	1,779	3,022	31	14	4,846	130	1,849	1,979	6,825	9
Sampling error (percent)	18	11	71	100		48	15		9	

Table 35.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Casco Bay, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Canadian yew	.9	5.5	3.7	.0	10.1	60	s[a]
Northern white-cedar	.0	13.8	.7	.0	14.5	95	0
Eastern hemlock	154.0	138.1	15.6	.0	307.7	15	20
Striped maple	25.4	31.3	.0	.0	56.7	35	14
Red maple	270.2	454.4	152.0	.0	876.6	10	25
Mountain maple	5.5	.0	3.2	.0	8.7	73	16
Apple	9.9	.9	4.1	.0	14.9	55	15
Staghorn sumac	.9	.0	.0	.0	.9	100	s
Basswood	6.3	.9	.0	.0	7.2	68	26
Hobblebush viburnum	19.9	.5	.0	.0	20.4	67	s
Total readily browsed	493.0	645.4	179.3	.0	1,317.7	8	
Balsam fir	111.2	278.9	87.1	.0	477.2	17	20
Juniper	221.4	204.8	82.8	6.8	515.8	42	s
White pine	99.1	112.4	12.2	.0	223.7	14	49
Sugar maple	80.9	45.0	23.7	.0	149.6	22	19
Shadbush	.0	.0	6.6	.0	6.6	66	s
Yellow birch	12.8	40.8	3.7	.0	57.3	28	18
Black birch	7.4	11.9	.0	.0	19.3	43	48
Paper birch	68.2	125.3	43.2	.0	236.7	17	22
Red-osier dogwood	1.1	.0	1.6	.0	2.7	71	s
Hawthorn	.6	2.4	.0	.0	3.0	67	0
American hazelnut	9.1	18.7	.0	.0	27.8	54	s
Beaked hazelnut	61.2	121.9	63.3	.0	246.4	32	s
Beech	53.7	105.9	3.6	.0	163.2	17	25
White ash	78.0	98.7	28.6	.0	205.3	16	14
Black ash	.0	4.5	2.9	.0	7.4	51	52
Huckleberries	11.0	49.6	.0	.0	60.6	64	s
Winterberry	90.5	151.6	.0	.0	242.1	55	s
Honeysuckle	22.9	11.3	.0	.0	34.2	61	s
Mountain holly	19.3	12.8	.0	.0	32.1	72	s
Balsam poplar	.9	.0	1.9	.0	2.8	74	33
Bigtooth aspen	22.5	17.3	1.8	.0	41.6	42	19
Quaking aspen	25.8	50.0	93.9	.0	169.7	28	10
Pin cherry	39.9	13.3	58.7	.0	111.9	43	9
Black cherry	39.0	86.8	43.7	.0	169.5	21	4
Chokecherry	.9	.0	7.3	.0	8.2	90	s
White oak	15.2	34.2	8.4	.0	57.8	28	28
Roses	90.9	.0	.0	.0	90.9	100	s
Brambles	443.9	482.3	321.7	10.7	1,258.6	17	s

Table 35.--Continued

Species and browse preference class	Stand-size class: Sawtimber	Poletimber	Sapling and seedling	Nonstocked	All classes	Sampling error	Percent saplings
	Million stems					Percent	
Willows	49.6	22.7	25.0	.0	97.3	40	0
Common elderberry	.9	.0	.0	.0	.9	100	s
Red-berried elder	.9	.0	.0	.0	.9	100	s
American elm	.9	1.8	.7	.0	3.4	63	26
Blueberries	243.0	165.4	221.5	.0	629.9	30	s
Sweetfern	28.8	34.6	32.1	.0	95.5	43	s
Maple-leaf viburnum	6.8	12.6	16.9	.0	36.3	57	s
Wild raisin	71.2	38.2	42.4	.0	151.8	30	s
Total commonly browsed	2,029.5	2,355.7	1,235.3	17.5	5,638.0	8	
Tamarack	1.1	.0	.0	.0	1.1	100	100
Black spruce	.0	.9	.0	.0	.9	100	0
Red spruce	11.4	62.6	.0	.0	74.0	66	20
Pitch pine	.0	.0	.5	.0	.5	100	100
Speckled alder	84.9	62.9	36.1	.0	183.9	26	s
Black chokecherry	64.5	2.7	.0	.0	67.2	89	s
Gray birch	75.3	65.2	162.6	.0	303.1	22	26
Lambkill	47.4	90.7	76.8	.0	214.9	26	s
Labrador tea	10.9	.0	.0	.0	10.9	75	s
Eastern hophornbeam	24.5	31.3	5.3	.0	61.1	27	19
Bear oak	14.5	4.6	154.3	.0	173.4	70	2
Red oak	117.1	149.5	35.4	.0	302.0	12	17
Spiraea	164.3	207.0	154.7	119.3	645.3	27	s
Total infrequently browsed	615.9	677.4	625.7	119.3	2,038.3	12	
Red ash	.0	.9	.0	.0	.9	100	s
Witchhazel	80.3	172.9	10.5	.0	263.7	22	s
Gooseberries	.9	1.8	.0	.0	2.7	74	s
Total questionable	81.2	175.6	10.5	.0	267.3	22	
Unclassified species	433.4	597.4	371.9	38.7	1,441.4	14	
Total all species	3,653.0	4,451.5	2,422.7	175.5	10,702.7	6	
Sampling error (percent)	11	11	22	100	6		

[a] Classed as shrub species.

Table 36.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Casco Bay, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group								All groups
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Canadian yew	6.4	.0	.0	.0	.0	.0	.0	3.7	10.1
Northern white-cedar	.0	.0	.0	.0	.0	.0	14.5	.0	14.5
Eastern hemlock	254.6	.0	.0	.0	5.8	.0	46.6	.7	307.7
Striped maple	29.9	.0	.0	.0	9.8	.0	15.2	1.8	56.7
Red maple	386.2	1.8	.0	18.4	153.9	9.3	240.2	66.8	876.6
Mountain maple	5.5	.0	.0	.0	.0	3.2	.0	.0	8.7
Apple	3.5	.0	.0	.0	7.3	.0	1.4	2.7	14.9
Staghorn sumac	.9	.0	.0	.0	.0	.0	.0	.0	.9
Basswood	7.2	.0	.0	.0	.0	.0	.0	.0	7.2
Hobblebush viburnum	19.9	.0	.0	.0	.0	.0	.5	.0	20.4
Total readily browsed	714.1	1.8	.0	18.4	176.8	12.5	318.4	75.7	1,317.7
Balsam fir	232.0	29.0	.0	.0	37.5	9.2	118.4	51.1	477.2
Juniper	290.1	6.8	.0	1.8	4.5	.0	21.7	190.9	515.8
White pine	153.7	.0	.0	3.1	38.2	.0	21.6	7.1	223.7
Sugar maple	83.6	4.6	.0	.0	8.2	.0	50.2	3.0	149.6
Shadbush	.0	.0	.0	.0	1.8	.0	4.8	.0	6.6
Yellow birch	11.0	.9	.0	7.3	.9	.0	31.4	5.8	57.3
Black birch	8.8	.0	.0	.0	.9	.0	7.2	2.4	19.3
Paper birch	91.8	.9	.0	.0	74.4	.0	31.8	37.8	236.7
Red-osier dogwood	2.7	.0	.0	.0	.0	.0	.0	.0	2.7
Hawthorn	2.5	.0	.0	.0	.0	.0	.5	.0	3.0
American hazelnut	18.9	.0	.0	.0	.0	.0	3.4	5.5	27.8
Beaked hazelnut	111.4	.0	.0	.0	30.2	.0	96.3	8.5	246.4
Beech	68.3	.0	.0	2.7	23.1	.0	60.7	8.4	163.2
White ash	113.8	.9	.0	.0	19.6	3.2	52.4	15.4	205.3
Black ash	.9	.0	.0	.0	.0	.0	6.5	.0	7.4
Huckleberries	15.6	.0	.0	34.0	11.0	.0	.0	.0	60.6
Winterberry	115.3	.0	.0	.0	85.3	.0	34.3	7.2	242.1
Honeysuckle	22.7	.9	.0	.0	8.8	.0	1.8	.0	34.2
Mountain holly	.0	.0	.0	.0	19.3	.0	12.8	.0	32.1
Balsam poplar	.0	.9	.0	.0	.0	.0	.0	1.9	2.8
Bigtooth aspen	27.1	.0	.0	.0	4.6	.0	.9	9.0	41.6
Quaking aspen	50.4	12.0	.0	.0	4.6	.0	42.1	60.6	169.7
Pin cherry	22.6	.5	.0	22.5	.0	.0	51.8	14.5	111.9
Black cherry	61.9	.9	.0	.0	16.5	.0	24.4	65.8	169.5
Chokecherry	.0	.0	.0	.0	.0	.0	8.2	.0	8.2
White oak	18.8	.0	.0	6.4	28.9	.0	3.7	.0	57.8
Roses	.0	.0	.0	.0	.0	.0	90.9	.0	90.9
Brambles	616.7	81.7	.0	10.3	37.5	41.9	322.5	148.0	1,258.6

Table 36.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group								All groups
	White/ red pine	Spruce/ fir	Loblolly/ shortleaf	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Willows	49.2	.0	.0	.0	.0	22.8	19.0	6.2	97.3
Common elderberry	.9	.0	.0	.0	.0	.0	.0	.0	.9
Red-berried elder	.9	.0	.0	.0	.0	.0	.0	.0	.9
American elm	.9	.0	.0	.0	.0	.0	2.5	.0	3.4
Blueberries	270.9	.0	66.0	19.2	39.6	.0	183.9	50.3	629.9
Sweetfern	31.0	.0	.0	.0	5.4	.0	50.4	8.7	95.5
Maple-leaf viburnum	6.8	.0	.0	.0	.9	.0	16.9	11.7	36.3
Wild raisin	73.2	.0	.0	.5	5.7	23.9	34.3	14.2	151.8
Total commonly browsed	2,574.4	140.0	66.0	107.8	507.4	101.0	1,407.3	734.1	5,638.0
Tamarack	.0	1.1	.0	.0	.0	.0	.0	.0	1.1
Black spruce	.0	.0	.0	.0	.0	.0	.9	.0	.9
Red spruce	13.3	56.0	.0	.0	1.4	.0	3.3	.0	74.0
Pitch pine	.0	.0	.5	.0	.0	.0	.0	.0	.5
Speckled alder	82.7	4.6	.0	.0	.0	53.1	41.3	2.2	183.9
Black chokecherry	64.5	.0	.0	.0	1.8	.0	.9	.0	67.2
Gray birch	89.7	.0	11.6	3.2	22.3	.0	42.3	134.0	303.1
Lambkill	128.8	8.3	.0	.6	56.1	1.8	8.4	10.9	214.9
Labrador tea	3.6	.0	.0	.0	7.3	.0	.0	.0	10.9
Eastern hophornbeam	38.9	.0	.0	.0	5.0	.0	16.3	.9	61.1
Bear oak	9.0	.0	51.5	.0	.0	.0	.0	112.9	173.4
Red oak	141.1	.9	.0	11.6	64.3	.0	72.1	12.0	302.0
Spiraea	316.6	121.9	.0	1.3	5.8	7.5	91.4	100.8	645.3
Total infrequently browsed	888.2	192.8	63.6	16.7	164.0	62.4	276.9	373.7	2,038.3
Red ash	.0	.9	.0	.0	.0	.0	.0	.0	.9
Witch-hazel	138.0	.0	.0	4.6	57.7	.0	58.1	5.3	263.7
Gooseberries	.0	.0	.0	.0	.0	.0	2.7	.0	2.7
Total questionable	138.0	.9	.0	4.6	57.7	.0	60.8	5.3	267.3
Unclassified species	501.5	61.8	16.3	57.0	294.9	43.8	355.5	110.6	1,441.4
Total all species	4,816.2	397.3	145.9	204.5	1,200.8	219.7	2,418.9	1,299.4	10,702.7
Sampling error (percent)	10	51	83	53	23	46	20	26	6

Table 37.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Casco Bay, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Canada yew	10.1	.0	.0	.0	10.1
Northern white-cedar	14.5	.0	.0	.0	14.5
Eastern hemlock	304.1	3.6	.0	.0	307.7
Striped maple	51.0	5.7	.0	.0	56.7
Red maple	720.4	130.1	19.7	6.4	876.6
Mountain maple	8.7	.0	.0	.0	8.7
Apple	13.3	1.6	.0	.0	14.9
Staghorn sumac	.9	.0	.0	.0	.9
Basswood	5.3	.0	.0	1.9	7.2
Hobblebush viburnum	19.5	.9	.0	.0	20.4
Total readily browsed	1,147.8	141.9	19.7	8.3	1,317.7
Balsam fir	469.9	7.3	.0	.0	477.2
Juniper	515.8	.0	.0	.0	515.8
White pine	220.9	.0	2.8	.0	223.7
Sugar maple	131.3	12.8	5.5	.0	149.6
Shadbush	6.6	.0	.0	.0	6.6
Yellow birch	46.2	11.1	.0	.0	57.3
Black birch	16.7	2.6	.0	.0	19.3
Paper birch	180.6	38.2	15.1	2.8	236.7
Red-osier dogwood	2.7	.0	.0	.0	2.7
Hawthorn	2.4	.6	.0	.0	3.0
American hazelnut	16.1	8.0	.0	3.7	27.8
Beaked hazelnut	175.0	61.6	9.8	.0	246.4
Beech	144.5	11.7	6.1	.9	163.2
White ash	172.6	18.9	11.0	2.8	205.3
Black ash	7.4	.0	.0	.0	7.4
Huckleberries	45.0	1.8	13.8	.0	60.6
Winterberry	167.2	69.4	5.5	.0	242.1
Honeysuckle	34.2	.0	.0	.0	34.2
Mountain holly	32.1	.0	.0	.0	32.1
Balsam poplar	2.8	.0	.0	.0	2.8
Bigtooth aspen	40.7	.0	.9	.0	41.6
Quaking aspen	154.9	8.3	5.6	.9	169.7
Pin cherry	101.5	6.0	4.4	.0	111.9
Black cherry	145.3	20.5	3.7	.0	169.5
Chokecherry	8.2	.0	.0	.0	8.2
White oak	56.8	.0	1.0	.0	57.8
Roses	90.9	.0	.0	.0	90.9
Brambles	1,105.7	100.1	48.0	4.8	1,258.6
Willows	97.3	.0	.0	.0	97.3
Common elderberry	.9	.0	.0	.0	.9
Red-berried elder	.9	.0	.0	.0	.9
American elm	2.5	.9	.0	.0	3.4
Blueberries	561.4	34.4	14.7	19.4	629.9
Sweetfern	67.0	28.5	.0	.0	95.5
Maple-leaf viburnum	18.5	8.0	9.8	.0	36.3
Wild raisin	125.0	15.1	8.9	2.8	151.8
Total commonly browsed	4,967.5	465.8	166.6	38.1	5,638.0

Table 37.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	1.1	.0	.0	.0	1.1
Black spruce	.9	.0	.0	.0	.9
Red spruce	72.2	.0	.0	1.8	74.0
Pitch pine	.5	.0	.0	.0	.5
Speckled alder	176.5	7.4	.0	.0	183.9
Black chokecherry	14.7	52.5	.0	.0	67.2
Gray birch	238.3	27.5	25.7	11.6	303.1
Lambkill	204.9	10.0	.0	.0	214.9
Labrador tea	10.9	.0	.0	.0	10.9
Eastern hophornbeam	54.8	3.6	2.7	.0	61.1
Bear oak	173.4	.0	.0	.0	173.4
Red oak	257.7	22.4	21.9	.0	302.0
Spiraea	571.9	59.5	5.4	8.5	645.3
Total infrequently browsed	1,777.8	182.9	55.7	21.9	2,038.3
Red ash	.9	.0	.0	.0	.9
Witch-hazel	203.3	58.6	1.8	.0	263.7
Gooseberries	2.7	.0	.0	.0	2.7
Total questionable	206.9	58.6	1.8	.0	267.3
Unclassified species	1,235.5	126.8	74.6	4.5	1,441.4
Total all species	9,335.5	976.0	318.4	72.8	10,702.7
Sampling error (percent)	7	15	20	27	6

Table 38.--Area of timberland by forest type, forest-type group, and stand-size class, Hancock County, Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
Red pine	.0	.0	9.2	.0	9.2
White pine	18.4	9.2	.0	.0	27.6
White pine/hemlock	9.3	.0	.0	.0	9.3
Hemlock	46.8	.0	.0	.0	46.8
White/red pine group	74.5	9.2	9.2	.0	92.9
Balsam fir	.0	46.3	.0	.0	46.3
Red spruce	75.1	9.2	.0	9.7	94.0
Red spruce/balsam fir	56.4	83.3	37.5	.0	177.2
Black spruce	.0	9.6	.0	.0	9.6
Northern white-cedar	47.5	18.8	.0	.0	66.3
Tamarack	9.6	.0	.0	.0	9.6
Spruce/fir group	188.6	167.2	37.5	9.7	403.0
Northern red oak	9.2	.0	.0	.0	9.2
Mixed central hardwoods	.0	.0	9.7	.0	9.7
Oak/hickory group	9.2	.0	9.7	.0	18.9
Black ash/Amer. elm/red maple	.0	9.5	.0	.0	9.5
Elm/ash/red maple group	.0	9.5	.0	.0	9.5
Sugar maple/beech/yellow birch	56.3	37.1	.0	.0	93.4
Black cherry	.0	.0	9.2	.0	9.2
Red maple/northern hardwoods	18.3	9.6	27.9	.0	55.8
Mixed northern hardwoods	.0	18.4	9.2	.0	27.6
Northern hardwoods group	74.6	65.1	46.3	.0	186.0
Aspen	.0	28.0	9.7	.0	37.7
Paper birch	.0	28.3	.0	.0	28.3
Aspen/birch group	.0	56.3	9.7	.0	66.0
All forest types	346.9	307.3	112.4	9.7	776.3

Table 39.--Number of all live nut and fruit producing trees on timberland by species and diameter class, Hancock County, Maine, 1982

Species	Diameter class (inches at breast height) 5.0–6.9	7.0–8.9	9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	29+	All classes	Sampling error
	Thousand trees											Percent
Beech	3,659	611	392	117	98	25	20	33	15	0	4,970	41
Eastern hophornbeam	274	207	0	0	0	0	0	0	0	0	481	62
Black cherry	199	133	0	0	0	0	0	0	0	0	332	71
Northern red oak	309	256	133	0	33	59	22	0	0	0	812	56
Total, all species	4,441	1,207	525	117	131	84	42	33	15	0	6,595	32
Sampling error (percent)	38	34	49	58	78	59	70	100	100	-	32	

Table 40.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Hancock County, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	0	332,096	1,867,133	95,035	2,294,264
Saplings	42,707	186,716	0	0	229,423
Total sawtimber	42,707	518,812	1,867,133	95,035	2,523,687
Poletimber:					
Shrubs	1,938	447,666	706,031	60,995	1,216,630
Saplings	7,905	324,018	7,751	0	339,674
Total poletimber	9,843	771,684	713,782	60,995	1,556,304
Sapling/seedling:					
Shrubs	0	843,819	1,734,478	60,291	2,638,588
Saplings	0	67,869	1,909	0	69,778
Total sapling/seedling	0	911,688	1,736,387	60,291	2,708,366
Nonstocked:					
Shrubs	0	246,025	467,448	0	713,473
Saplings	0	0	0	0	0
Total nonstocked	0	246,025	467,448	0	713,473
Total, all classes	52,550	2,448,209	4,784,750	216,321	7,501,830

Table 41.--Number of standing dead trees on timberland by species, condition class, and diameter class, Hancock County, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0–10.9	11.0–14.9	15+	Total	5.0–10.9	11.0–14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	2,941	112	0	3,053	7,924	201	33	8,158	11,211	20
Tamarack	99	0	0	99	136	0	0	136	235	77
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	138	0	0	138	69	0	0	69	207	56
Red spruce	432	0	34	466	1,141	166	0	1,307	1,773	44
Red pine	82	0	0	82	0	0	0	0	82	100
White pine	0	33	0	33	515	0	20	535	568	69
Northern white-cedar	1,180	179	29	1,388	857	0	0	857	2,245	32
Hemlock	200	0	0	200	0	33	0	33	233	65
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	5,072	324	63	5,459	10,642	400	53	11,095	16,554	16
Sugar maple	69	0	0	69	0	66	0	66	135	71
Red maple	587	34	0	621	895	0	0	895	1,516	38
Yellow birch	69	0	0	69	275	103	69	447	516	39
Paper birch	837	0	0	837	1,316	0	0	1,316	2,153	31
Gray birch	202	0	0	202	686	0	0	686	888	50
Beech	66	169	35	270	1,403	184	145	1,732	2,002	40
White ash	0	0	0	0	0	0	0	0	0	0
Black ash	0	0	0	0	0	0	0	0	0	0
Aspen	487	0	0	487	1,040	0	0	1,040	1,527	34
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	0	0	0	0	0	0	0	0
Other hardwoods	226	33	0	259	821	0	0	821	1,080	46
Total hardwoods	2,543	236	35	2,814	6,436	353	214	7,003	9,817	15
Total, all species	7,615	560	98	8,273	17,078	753	267	18,098	26,371	12
Sampling error (percent)	16	29	57	15	14	29	35	13	12	

Table 42.--Number of trees with observed cavities on timberland by species and condition class, Hancock County, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	Thousand trees									Percent
Balsam fir	167	718	0	263	1,148	420	1,020	1,440	2,588	30
Tamarack	0	0	0	0	0	100	66	166	166	100
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	0	0	0	0	0	0	0	0	0	0
Red spruce	100	258	0	0	358	140	335	475	833	39
Red pine	0	0	0	0	0	81	0	81	81	100
White pine	135	92	0	62	289	33	20	53	342	42
Northern white-cedar	101	1,114	0	208	1,423	272	277	549	1,972	26
Hemlock	203	420	0	0	623	66	33	99	722	38
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	706	2,602	0	533	3,841	1,112	1,751	2,863	6,704	16
Sugar maple	102	237	0	14	353	69	66	135	488	46
Red maple	663	2,264	0	69	2,996	328	423	751	3,747	19
Yellow birch	69	825	0	138	1,032	69	378	447	1,479	33
Paper birch	289	1,073	0	67	1,429	228	527	755	2,184	33
Gray birch	0	272	0	0	272	136	202	338	610	57
Beech	0	693	0	253	946	203	999	1,202	2,148	36
White ash	69	18	0	0	87	0	0	0	87	100
Black ash	0	43	0	69	112	0	0	0	112	72
Aspen	100	748	0	0	848	216	363	579	1,427	39
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	67	171	0	0	238	0	0	0	238	77
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	0	0	0	0	0	0	0	0
Other hardwoods	0	484	0	66	550	259	752	1,011	1,561	39
Total hardwoods	1,359	6,828	0	676	8,863	1,508	3,710	5,218	14,081	13
Total, all species	2,065	9,430	0	1,209	12,704	2,620	5,461	8,081	20,785	11
Sampling error (percent)	21	16	-	35		20	17		11	

Table 43.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Hancock County, Maine, 1982

Species and browse preference class	Stand-size class: Sawtimber	Poletimber	Sapling and seedling	Nonstocked	All classes	Sampling error	Percent saplings
	Million stems					Percent	
Northern white-cedar	53.9	140.5	24.6	.0	219.0	40	15
Eastern hemlock	28.0	13.6	.0	.0	41.6	39	23
Striped maple	50.3	29.9	.0	.0	80.2	53	15
Red maple	76.7	78.2	43.8	.0	198.7	22	28
Mountain maple	25.5	3.9	.0	.0	29.4	81	0
Apple	.0	.0	1.9	.0	1.9	100	100
Total readily browsed	234.4	266.1	70.3	.0	570.8	20	
Balsam fir	565.6	611.1	26.0	.0	1,202.7	14	21
Juniper	.0	1.9	.0	.0	1.9	100	s[a]
White pine	19.5	.0	3.9	.0	23.4	49	25
Sugar maple	6.0	7.7	.0	.0	13.7	65	57
Shadbush	.0	9.7	8.2	.0	17.9	71	s
Yellow birch	239.6	20.1	.0	.0	259.7	69	7
Paper birch	7.8	33.5	4.0	.0	45.3	37	39
Red-osier dogwood	.0	.0	11.5	.0	11.5	100	s
American hazelnut	.0	1.9	.0	.0	1.9	100	s
Beech	64.2	39.3	.0	.0	103.5	40	47
White ash	.0	11.9	3.9	.0	15.8	61	37
Black ash	2.0	32.2	.0	.0	34.2	95	6
Huckleberries	.0	.0	10.3	.0	10.3	100	s
Winterberry	.0	7.8	.0	.0	7.8	100	s
Honeysuckle	.0	10.0	34.4	.0	44.4	65	s
Mountain holly	2.0	2.0	.0	.0	4.0	70	s
Balsam poplar	9.7	.0	.0	.0	9.7	100	0
Bigtooth aspen	1.9	.0	.0	.0	1.9	100	0
Quaking aspen	1.9	44.7	47.1	.0	93.7	48	15
Pin cherry	7.8	.0	1.9	.0	9.7	82	0
Black cherry	10.1	3.9	27.4	.0	41.4	48	9
Chokecherry	.0	2.0	20.5	.0	22.5	92	0
Roses	5.8	.0	128.8	.0	134.6	69	s
Brambles	393.7	143.6	497.2	.0	1,034.5	32	s
Blueberries	1,406.5	449.6	974.6	455.1	3,285.8	31	s
Sweetfern	.0	1.9	5.7	.0	7.6	79	s
Total commonly browsed	2,744.1	1,434.8	1,805.4	455.1	6,439.4	17	

Table 43.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Tamarack	.0	11.6	.0	.0	11.6	100	0
White spruce	.0	16.1	2.0	.0	18.1	80	11
Black spruce	8.1	14.0	.0	.0	22.1	65	73
Red spruce	282.4	152.2	49.9	.0	484.5	26	23
Speckled alder	160.7	15.5	.0	.0	176.2	39	s
Gray birch	19.4	21.3	3.9	.0	44.6	59	26
Lambkill	147.3	213.5	267.1	24.6	652.5	45	s
Labrador tea	.0	.0	42.0	.0	42.0	100	s
Eastern hophornbeam	18.1	2.0	.0	.0	20.1	91	0
Red oak	1.9	.0	.0	.0	1.9	100	100
Spiraea	22.2	44.7	403.2	.0	470.1	48	
Total infrequently browsed	660.1	490.9	768.1	24.6	1,943.7	25	
Gooseberries	3.9	.0	54.3	.0	58.2	94	s
Total questionable	3.9	.0	54.3	.0	58.2	94	
Other species	160.1	352.4	215.2	233.8	961.5	31	
Total all species	3,802.6	2,544.2	2,913.3	713.5	9,973.6	15	
Sampling error (percent)	32	25	41	100	17		

[a] Classed as shrub species.

Table 44.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Hancock County, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	2.0	188.6	24.6	.0	1.9	1.9	219.0
Eastern hemlock	15.9	17.9	.0	.0	7.8	.0	41.6
Striped maple	.0	10.1	.0	.0	54.0	16.1	80.2
Red maple	11.6	113.2	16.4	6.1	43.3	8.1	198.7
Mountain maple	.0	25.5	.0	.0	3.9	.0	29.4
Apple	.0	.0	.0	.0	1.9	.0	1.9
Total readily browsed	29.5	355.3	41.0	6.1	112.8	26.1	570.8
Balsam fir	142.9	802.4	8.0	4.0	176.0	69.4	1,202.7
Juniper	1.9	.0	.0	.0	.0	.0	1.9
White pine	15.5	1.9	.0	.0	6.0	.0	23.4
Sugar maple	4.0	.0	.0	.0	9.7	.0	13.7
Shadbush	.0	.0	.0	.0	8.2	9.7	17.9
Yellow birch	35.1	26.1	.0	.0	194.5	4.0	259.7
Paper birch	.0	17.6	.0	.0	13.6	14.1	45.3
Red-osier dogwood	.0	.0	.0	.0	11.5	.0	11.5
American hazelnut	.0	.0	.0	.0	.0	1.9	1.9
Beech	13.6	9.7	1.9	.0	64.2	14.1	103.5
White ash	.0	3.9	.0	.0	3.8	8.1	15.8
Black ash	.0	.0	1.9	32.3	.0	.0	34.2
Huckleberries	.0	.0	10.3	.0	.0	.0	10.3
Winterberry	.0	7.8	.0	.0	.0	.0	7.8
Honeysuckle	1.9	8.1	.0	.0	7.7	26.7	44.4
Mountain holly	.0	2.0	.0	.0	2.0	.0	4.0
Balsam poplar	.0	.0	.0	.0	9.7	.0	9.7
Bigtooth aspen	.0	1.9	.0	.0	.0	.0	1.9
Quaking aspen	1.9	54.3	.0	.0	31.5	6.0	93.7
Pin cherry	.0	9.7	.0	.0	.0	.0	9.7
Black cherry	2.0	1.9	.0	.0	29.3	8.2	41.4
Chokecherry	.0	.0	.0	.0	22.5	.0	22.5
Roses	.0	5.8	.0	.0	77.5	51.3	134.6
Brambles	166.7	300.7	.0	4.0	342.1	221.0	1,034.5
Blueberries	219.0	1,997.1	198.0	.0	654.7	217.0	3,285.8
Sweetfern	.0	1.9	.0	.0	5.7	.0	7.6
Total commonly browsed	604.5	3,252.8	220.1	40.3	1,670.2	651.5	6,439.4

Table 44.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Tamarack	.0	11.6	.0	.0	.0	.0	11.6
White spruce	.0	1.9	.0	.0	.0	16.2	18.1
Black spruce	.0	20.2	.0	.0	.0	1.9	22.1
Red spruce	37.3	361.6	7.9	6.0	51.8	19.9	484.5
Speckled alder	7.7	116.2	.0	.0	52.3	.0	176.2
Gray birch	3.9	19.4	.0	.0	.0	21.3	44.6
Lambkill	40.7	344.7	12.3	.0	254.8	.0	652.5
Labrador tea	.0	.0	.0	.0	42.0	.0	42.0
Eastern hophornbeam	.0	18.1	.0	.0	2.0	.0	20.1
Red oak	.0	1.9	.0	.0	.0	.0	1.9
Spiraea	.0	45.4	.0	2.0	356.1	66.6	470.1
Total infrequently browsed	89.6	941.0	20.2	8.0	759.0	125.9	1,943.7
Gooseberries	54.3	3.9	.0	.0	.0	.0	58.2
Total questionable	54.3	3.9	.0	.0	.0	.0	58.2
Unclassified species	112.4	407.2	6.1	118.9	244.7	72.2	961.5
Total all species	890.3	4,960.2	287.4	173.3	2,786.7	875.7	9,973.6
Sampling error (percent)	40	26	77	100	38	56	15

Table 45.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Hancock County, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	203.5	15.5	.0	.0	219.0
Eastern hemlock	41.6	.0	.0	.0	41.6
Striped maple	50.0	6.0	24.2	.0	80.2
Red maple	153.3	33.5	11.9	.0	198.7
Mountain maple	27.4	.0	2.0	.0	29.4
Apple	1.9	.0	.0	.0	1.9
Total readily browsed	477.7	55.0	38.1	.0	570.8
Balsam fir	1,196.8	5.9	.0	.0	1,202.7
Juniper	1.9	.0	.0	.0	1.9
White pine	23.4	.0	.0	.0	23.4
Sugar maple	9.7	.0	4.0	.0	13.7
Shadbush	12.1	5.8	.0	.0	17.9
Yellow birch	112.4	110.5	36.8	.0	259.7
Paper birch	33.6	9.8	1.9	.0	45.3
Red-osier dogwood	.0	11.5	.0	.0	11.5
American hazelnut	1.9	.0	.0	.0	1.9
Beech	81.7	17.9	1.9	2.0	103.5
White ash	7.8	2.0	6.0	.0	15.8
Black ash	24.1	10.1	.0	.0	34.2
Huckleberries	10.3	.0	.0	.0	10.3
Winterberry	.0	.0	7.8	.0	7.8
Honeysuckle	44.4	.0	.0	.0	44.4
Mountain holly	4.0	.0	.0	.0	4.0
Balsam poplar	9.7	.0	.0	.0	9.7
Bigtooth aspen	1.9	.0	.0	.0	1.9
Quaking aspen	82.2	.0	11.5	.0	93.7
Pin cherry	9.7	.0	.0	.0	9.7
Black cherry	27.9	13.5	.0	.0	41.4
Chokecherry	22.5	.0	.0	.0	22.5
Roses	99.7	34.9	.0	.0	134.6
Brambles	1,032.6	1.9	.0	.0	1,034.5
Blueberries	2,029.5	1,005.6	229.4	21.3	3,285.8
Sweetfern	.0	7.6	.0	.0	7.6
Total commonly browsed	4,879.8	1,237.0	299.3	23.3	6,439.4

Table 45.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	11.6	.0	.0	.0	11.6
White spruce	18.1	.0	.0	.0	18.1
Black spruce	22.1	.0	.0	.0	22.1
Red spruce	478.4	6.1	.0	.0	484.5
Speckled alder	127.1	43.3	5.8	.0	176.2
Gray birch	31.0	.0	13.6	.0	44.6
Lambkill	652.5	.0	.0	.0	652.5
Labrador tea	42.0	.0	.0	.0	42.0
Eastern hophornbeam	20.1	.0	.0	.0	20.1
Red oak	1.9	.0	.0	.0	1.9
Spiraea	213.1	257.0	.0	.0	470.1
Total infrequently browsed	1,617.9	306.4	19.4	.0	1,943.7
Gooseberries	58.2	.0	.0	.0	58.2
Total questionable	58.2	.0	.0	.0	58.2
Unclassified species	640.0	285.8	35.7	.0	961.5
Total all species	7,673.6	1,884.2	392.5	23.3	9,973.6
Sampling error (percent)	16	38	51	63	15

Table 46.--Area of timberland by forest type, forest-type group, and stand-size class, Penobscot County, Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
Red pine	9.5	9.6	.0	.0	19.1
White pine	57.8	9.6	9.6	.0	77.0
White pine/hemlock	48.3	38.4	.0	.0	86.7
Hemlock	103.7	28.7	.0	.0	132.4
White/red pine group	219.3	86.3	9.6	.0	315.2
Balsam fir	9.6	28.8	9.0	.0	47.4
Red spruce	67.3	28.6	.0	.0	95.9
Red spruce/balsam fir	211.4	96.0	28.6	.0	336.0
White spruce	9.6	.0	.0	.0	9.6
Black spruce	.0	.0	9.5	.0	9.5
Northern white-cedar	125.0	162.6	9.6	.0	297.2
Tamarack	.0	9.5	.0	.0	9.5
Spruce/fir group	422.9	325.5	56.7	.0	805.1
Black ash/Amer. elm/red maple	19.1	19.2	.0	.0	38.3
Willow	.0	.0	9.6	.0	9.6
Elm/ash/red maple group	19.1	19.2	9.6	.0	47.9
Sugar maple/beech/yellow birch	133.5	151.9	19.3	.0	304.7
Black cherry	.0	9.6	.0	.0	9.6
Red maple/northern hardwoods	28.5	66.7	9.8	.0	105.0
Pin cherry/reverting field	.0	.0	.0	9.0	9.0
Mixed northern hardwoods	48.0	28.6	.0	.0	76.6
Northern hardwoods group	210.0	256.8	29.1	9.0	504.9
Aspen	19.2	104.6	.0	.0	123.8
Paper birch	.0	38.1	.0	.0	38.1
Gray birch	.0	19.2	18.5	.0	37.7
Aspen/birch group	19.2	161.9	18.5	.0	199.6
All forest types	890.5	849.7	123.5	9.0	1,872.7

Table 47.--Number of all live nut and fruit producing trees on timberland by species and diameter class, Penobscot County, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Serviceberry	67	0	0	0	0	0	0	0	0	0	67	100
Beech	14,008	8,111	3,490	2,135	971	336	140	84	31	0	29,306	17
Apple	0	290	0	33	0	0	0	0	0	0	323	100
Eastern hophornbeam	1,978	195	81	0	0	0	0	0	0	0	2,254	36
Pin cherry	0	67	57	0	0	0	0	0	0	0	124	100
Black cherry	864	134	67	67	33	0	0	0	0	0	1,165	73
Chokecherry	67	0	0	0	0	0	0	0	0	0	67	100
White oak	456	196	0	0	0	0	0	0	0	0	652	100
Northern red oak	268	67	67	127	0	133	33	0	0	0	695	50
Total, all species	17,708	9,060	3,762	2,362	1,004	469	173	84	31	0	34,653	15
Sampling error (percent)	17	18	22	21	25	36	41	72	100	-	15	

Table 48.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Penobscot County, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	95,243	504,559	1,789,388	185,125	2,574,315
Saplings	50,525	330,321	5,825	1,953	388,624
Total sawtimber	145,768	834,880	1,795,213	187,078	2,962,939
Poletimber:					
Shrubs	123,886	893,014	3,223,923	261,968	4,502,791
Saplings	86,760	452,447	1,936	0	541,143
Total poletimber	210,646	1,345,461	3,225,859	261,968	5,043,934
Sapling/seedling:					
Shrubs	0	957,619	620,266	290,684	1,868,569
Saplings	0	90,857	5,989	0	96,846
Total sapling/seedling	0	1,048,476	626,255	290,684	1,965,415
Nonstocked:					
Shrubs	0	59,867	558,757	0	618,624
Saplings	0	0	0	0	0
Total nonstocked	0	59,867	558,757	0	618,624
Total, all classes	356,414	3,288,684	6,206,084	739,730	10,590,912

Table 49.--Number of standing dead trees on timberland by species, condition class, and diameter class, Penobscot County, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0-10.9	11.0-14.9	15+	Total	5.0-10.9	11.0-14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	12,457	352	0	12,809	13,069	505	0	13,574	26,383	12
Tamarack	0	0	0	0	391	0	18	409	409	82
White spruce	269	0	0	269	33	0	0	33	302	45
Black spruce	133	0	0	133	34	0	0	34	167	82
Red spruce	3,448	33	0	3,481	1,991	167	17	2,175	5,656	20
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	299	101	0	400	1,389	133	55	1,577	1,977	30
Northern white-cedar	4,841	505	67	5,413	2,781	311	33	3,125	8,538	16
Hemlock	100	0	0	100	425	47	70	542	642	31
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	21,547	991	67	22,605	20,113	1,163	193	21,469	44,074	10
Sugar maple	343	33	13	389	702	70	64	836	1,225	33
Red maple	654	66	0	720	1,284	236	58	1,578	2,298	24
Yellow birch	67	0	0	67	656	368	215	1,239	1,306	25
Paper birch	139	182	0	321	535	291	94	920	1,241	31
Gray birch	551	0	0	551	1,681	0	0	1,681	2,232	33
Beech	1,284	108	0	1,392	1,566	333	282	2,181	3,573	34
White ash	333	0	33	366	133	0	24	157	523	43
Black ash	1,768	0	0	1,768	624	267	33	924	2,692	35
Aspen	1,028	33	0	1,061	1,651	134	67	1,852	2,913	27
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	33	33	68	0	0	68	101	75
Basswood	0	34	0	34	0	0	0	0	34	100
Elm	333	0	34	367	374	165	27	566	933	46
Other hardwoods	212	0	0	212	312	33	22	367	579	52
Total hardwoods	6,712	456	113	7,281	9,586	1,897	886	12,369	19,650	11
Total, all species	28,259	1,447	180	29,886	29,699	3,060	1,079	33,838	63,724	7
Sampling error (percent)	11	19	42	10	8	13	19	7	7	

Table 50.--Number of trees with observed cavities on timberland by species and condition class, Penobscot County, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	-----	-----	-----	-----	Thousand trees	-----	-----	-----	-----	Percent
Balsam fir	660	514	0	0	1,174	911	1,705	2,616	3,790	26
Tamarack	0	0	0	0	0	0	0	0	0	0
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	0	0	0	0	0	0	0	0	0	0
Red spruce	296	94	0	0	390	67	242	309	699	31
Red pine	0	15	0	0	15	0	0	0	15	100
White pine	33	36	11	0	80	0	311	311	391	52
Northern white-cedar	670	2,354	0	608	3,632	1,706	1,023	2,729	6,361	17
Hemlock	49	236	65	0	350	66	191	257	607	30
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	1,708	3,249	76	608	5,641	2,750	3,472	6,222	11,863	13
Sugar maple	732	628	0	0	1,360	222	497	719	2,079	28
Red maple	465	1,296	33	133	1,927	319	791	1,110	3,037	21
Yellow birch	285	612	0	66	963	0	607	607	1,570	22
Paper birch	79	68	0	0	147	0	213	213	360	39
Gray birch	0	133	0	0	133	67	0	67	200	58
Beech	466	1,221	0	66	1,753	66	796	862	2,615	24
White ash	13	66	0	0	79	133	0	133	212	49
Black ash	0	151	0	0	151	0	234	234	385	46
Aspen	399	257	0	0	656	67	369	436	1,092	32
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	33	33	0	0	66	33	0	33	99	100
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	0	0	0	0	0	0	0	0
Other hardwoods	33	0	0	0	33	0	34	34	67	100
Total hardwoods	2,505	4,465	33	265	7,268	907	3,541	4,448	11,716	12
Total, all species	4,213	7,714	109	873	12,909	3,657	7,013	10,670	23,579	8
Sampling error (percent)	17	13	68	32		22	13		8	

Table 51.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Penobscot County, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Northern white-cedar	230.2	374.9	56.2	.0	661.3	24	12
Eastern hemlock	307.7	286.1	17.4	.0	611.2	21	8
Striped maple	421.2	381.9	2.0	.0	805.1	19	3
Red maple	554.0	490.8	43.1	.0	1,087.9	12	9
Mountain maple	117.1	60.4	.0	.0	177.5	39	2
Apple	1.9	.0	.0	.0	1.9	100	100
Staghorn sumac	.0	1.9	.0	.0	1.9	100	s[a]
Mountain ash	5.8	.0	.0	.0	5.8	75	s
Hobblebush viburnum	52.4	3.9	.0	.0	56.3	33	s
Total readily browsed	1,690.3	1,599.9	118.7	.0	3,408.9	9	
fir	1,899.4	1,355.6	133.8	.0	3,388.8	11	9
Juniper	.0	.0	.0	556.9	556.9	100	s
White pine	72.0	48.6	11.7	.0	132.3	26	16
Sugar maple	322.5	376.2	17.6	.0	716.3	25	5
Shadbush	7.8	66.7	1.9	.0	76.4	83	s
Yellow birch	299.4	303.9	9.7	.0	613.0	20	2
Paper birch	56.3	164.3	19.4	.0	240.0	27	16
Red-osier dogwood	.0	23.4	93.0	.0	116.4	78	s
Hawthorn	.0	.0	11.9	.0	11.9	85	17
American hazelnut	.0	3.9	.0	.0	3.9	100	s
Beaked hazelnut	95.3	120.0	.0	.0	215.3	31	s
Beech	321.8	502.0	5.9	.0	829.7	19	14
White ash	99.9	94.3	.0	.0	194.2	26	0
Black ash	66.5	66.2	.0	.0	132.7	35	6
Winterberry	15.5	239.2	11.6	.0	266.3	52	s
Honeysuckle	107.3	51.8	.0	.0	159.1	36	s
Mountain holly	9.7	27.0	.0	.0	36.7	60	s
Balsam poplar	17.5	7.8	.0	.0	25.3	53	8
Bigtooth aspen	23.2	19.3	7.3	.0	49.8	39	27
Quaking aspen	42.7	213.8	45.6	.0	302.1	53	1
Pin cherry	13.6	21.1	9.7	.0	44.4	37	7
Black cherry	40.7	21.4	.0	.0	62.1	65	0
Chokecherry	3.9	17.4	83.3	.0	104.6	66	s
Roses	.0	1.9	.0	.0	1.9	100	s
Brambles	1,289.7	2,087.2	277.2	1.8	3,655.9	19	s
Willows	11.6	11.6	79.4	.0	102.6	78	17
Common elderberry	.0	31.1	.0	.0	31.1	63	s

Table 51.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
American elm	.0	50.3	.0	.0	50.3	96	7
Blueberries	189.9	357.1	199.3	.0	746.3	32	s
Sweetfern	3.9	124.5	.0	.0	128.4	78	s
Maple-leaf viburnum	21.3	103.5	2.0	.0	126.8	83	s
Wild raisin	15.6	111.2	1.8	.0	128.6	75	s
Total commonly browsed	5,047.0	6,622.3	1,022.1	558.7	13,250.1	9	
Tamarack	3.9	3.9	5.8	.0	13.6	55	43
White spruce	40.9	13.6	3.9	.0	58.4	31	23
Black spruce	.0	15.5	23.2	.0	38.7	67	30
Red spruce	219.7	267.0	34.9	.0	521.6	17	13
Speckled alder	275.7	437.1	192.7	.0	905.5	24	s
Gray birch	21.5	82.9	36.3	.0	140.7	31	23
Lambkill	104.6	158.0	40.7	.0	303.3	38	s
Labrador tea	.0	48.4	123.9	.0	172.3	58	s
Eastern hophornbeam	79.1	17.5	.0	.0	96.6	40	22
Red oak	3.9	7.8	1.9	.0	13.6	51	14
Spiraea	7.8	152.1	507.9	59.9	727.7	48	s
Total infrequently browsed	757.1	1,203.8	971.2	59.9	2,992.0	18	
Red ash	.0	7.8	.0	.0	7.8	79	s
Witch-hazel	1.9	.0	.0	.0	1.9	100	s
Rhododendron	1.9	2.0	.0	.0	3.9	71	s
Gooseberries	49.0	3.9	11.6	.0	64.5	38	s
Total questionable	52.8	13.7	11.6	.0	78.1	33	
Unclassified species	358.2	419.3	406.8	.0	1,184.3	25	
Total all species	7,905.4	9,859.0	2,530.4	618.6	20,913.4	7	
Sampling error (percent)	12	13	33	100	7		

[a] Classed as shrub species.

Table 52.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Penobscot County, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group					All groups
	White/ red pine	Spruce/ fir	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	37.0	585.2	.0	19.6	19.5	661.3
Eastern hemlock	234.1	261.3	.0	110.0	5.8	611.2
Striped maple	33.1	127.0	.0	445.1	199.9	805.1
Red maple	177.2	438.4	27.1	232.0	213.2	1,087.9
Mountain maple	7.8	121.0	.0	19.5	29.2	177.5
Apple	.0	1.9	.0	.0	.0	1.9
Staghorn sumac	.0	.0	.0	.0	1.9	1.9
Mountain ash	.0	3.9	.0	1.9	.0	5.8
Hobblebush viburnum	3.9	9.8	.0	42.6	.0	56.3
Total readily browsed	493.1	1,548.5	27.1	870.7	469.5	3,408.9
Balsam fir	612.2	2,039.5	32.9	466.9	237.3	3,388.8
Juniper	.0	.0	.0	556.9	.0	556.9
White pine	70.3	33.1	.0	27.0	1.9	132.3
Sugar maple	91.0	168.0	.0	439.9	17.4	716.3
Shadbush	3.9	5.9	.0	3.9	62.7	76.4
Yellow birch	118.5	182.7	3.9	286.7	21.2	613.0
Paper birch	17.6	107.2	1.9	86.2	27.1	240.0
Red-osier dogwood	.0	17.6	89.1	4.0	5.7	116.4
Hawthorn	.0	.0	1.9	10.0	.0	11.9
American hazelnut	.0	3.9	.0	.0	.0	3.9
Beeked hazelnut	27.1	81.7	13.6	85.2	7.7	215.3
Beech	48.6	42.8	.0	693.8	44.5	829.7
White ash	3.9	50.7	1.9	105.1	32.6	194.2
Black ash	.0	81.9	13.7	5.8	31.3	132.7
Winterberry	.0	105.2	.0	102.5	58.6	266.3
Honeysuckle	9.7	99.5	.0	21.3	28.6	159.1
Mountain holly	.0	32.9	.0	3.8	.0	36.7
Balsam poplar	.0	19.5	.0	.0	5.8	25.3
Bigtooth aspen	21.4	13.1	.0	3.9	11.4	49.8
Quaking aspen	32.9	80.4	9.7	11.6	167.5	302.1
Pin cherry	3.9	.0	7.8	9.7	23.0	44.4
Black cherry	2.0	.0	34.8	23.4	1.9	62.1
Chokecherry	.0	11.7	.0	67.8	25.1	104.6
Roses	.0	.0	.0	1.9	.0	1.9
Brambles	633.1	1,204.1	626.2	1,064.5	128.0	3,655.9
Willows	7.8	5.7	79.4	9.7	.0	102.6
Common elderberry	.0	.0	.0	17.4	13.7	31.1
American elm	.0	.0	.0	48.4	1.9	50.3
Blueberries	263.8	212.0	83.2	49.6	137.7	746.3
Sweetfern	3.9	7.7	1.9	9.5	105.4	128.4
Maple-leaf viburnum	.0	.0	.0	23.3	103.5	126.8
Wild raisin	.0	29.1	1.9	1.9	95.7	128.6
Total commonly browsed	1,971.6	4,635.9	1,003.8	4,241.6	1,397.2	13,250.1

Table 52.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group: White/ red pine	Spruce/ fir	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	All groups
Tamarack	.0	11.7	.0	.0	1.9	13.6
White spruce	7.8	39.0	.0	5.8	5.8	58.4
Black spruce	.0	25.1	13.6	.0	.0	38.7
Red spruce	105.4	319.3	3.9	59.9	33.1	521.6
Speckled alder	23.4	412.1	184.5	142.5	143.0	905.5
Gray birch	15.5	30.8	1.9	21.3	71.2	140.7
Lambkill	7.8	231.4	.0	13.3	50.8	303.3
Labrador tea	.0	158.7	13.6	.0	.0	172.3
Eastern hophornbeam	15.5	11.8	1.9	63.5	3.9	96.6
Red oak	7.8	.0	.0	3.9	1.9	13.6
Spiraea	19.5	52.3	61.9	175.7	418.3	727.7
Total infrequently browsed	202.7	1,292.2	281.3	485.9	729.9	2,992.0
Red ash	.0	.0	.0	2.0	5.8	7.8
Witch-hazel	.0	.0	.0	1.9	.0	1.9
Rhododendron	2.0	1.9	.0	.0	.0	3.9
Gooseberries	.0	52.9	.0	.0	11.6	64.5
Total questionable	2.0	54.8	.0	3.9	17.4	78.1
Unclassified species	188.4	471.0	253.6	91.5	179.8	1,184.3
Total all species	2,857.8	8,002.4	1,565.8	5,693.6	2,793.8	20,913.4
Sampling error (percent)	25	12	49	18	30	7

Table 53.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Penobscot County, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	655.4	5.9	.0	.0	661.3
Eastern hemlock	611.2	.0	.0	.0	611.2
Striped maple	593.3	172.9	33.0	5.9	805.1
Red maple	864.3	142.0	40.8	40.8	1,087.9
Mountain maple	91.7	46.7	39.1	.0	177.5
Apple	1.9	.0	.0	.0	1.9
Staghorn sumac	.0	1.9	.0	.0	1.9
Mountain ash	1.9	3.9	.0	.0	5.8
Hobblebush viburnum	52.4	3.9	.0	.0	56.3
Total readily browsed	2,872.1	377.2	112.9	46.7	3,408.9
Balsam fir	3,285.6	85.7	13.6	3.9	3,388.8
Juniper	556.9	.0	.0	.0	556.9
White pine	128.4	3.9	.0	.0	132.3
Sugar maple	591.6	116.9	1.9	5.9	716.3
Shadbush	53.6	.0	22.8	.0	76.4
Yellow birch	450.3	129.6	23.3	9.8	613.0
Paper birch	173.0	65.0	.0	2.0	240.0
Red-osier dogwood	38.8	60.0	17.6	.0	116.4
Hawthorn	11.9	.0	.0	.0	11.9
American hazelnut	.0	3.9	.0	.0	3.9
Beeked hazelnut	126.3	38.7	50.3	.0	215.3
Beech	769.4	33.0	23.4	3.9	829.7
White ash	128.5	56.0	.0	9.7	194.2
Black ash	119.1	13.6	.0	.0	132.7
Winterberry	246.8	11.7	7.8	.0	266.3
Honeysuckle	137.5	21.6	.0	.0	159.1
Mountain holly	34.8	1.9	.0	.0	36.7
Balsam poplar	21.4	1.9	2.0	.0	25.3
Bigtooth aspen	32.3	17.5	.0	.0	49.8
Quaking aspen	253.9	36.6	7.8	3.8	302.1
Pin cherry	44.4	.0	.0	.0	44.4
Black cherry	62.1	.0	.0	.0	62.1
Chokecherry	21.5	71.5	11.6	.0	104.6
Roses	1.9	.0	.0	.0	1.9
Brambles	3,566.0	89.9	.0	.0	3,655.9
Willows	54.1	44.6	2.0	1.9	102.6
Common elderberry	29.1	2.0	.0	.0	31.1
American elm	50.3	.0	.0	.0	50.3
Blueberries	746.3	.0	.0	.0	746.3
Sweetfern	118.9	9.5	.0	.0	128.4
Maple-leaf viburnum	124.9	1.9	.0	.0	126.8
Wild raisin	128.6	.0	.0	.0	128.6
Total commonly browsed	12,108.2	916.9	184.1	40.9	13,250.1

Table 53.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	13.6	.0	.0	.0	13.6
White spruce	54.5	3.9	.0	.0	58.4
Black spruce	38.7	.0	.0	.0	38.7
Red spruce	521.6	.0	.0	.0	521.6
Speckled alder	872.6	.0	32.9	.0	905.5
Gray birch	117.4	11.7	5.8	5.8	140.7
Lambkill	274.3	29.0	.0	.0	303.3
Labrador tea	172.3	.0	.0	.0	172.3
Eastern hophornbeam	96.6	.0	.0	.0	96.6
Red oak	13.6	.0	.0	.0	13.6
Spiraea	696.7	31.0	.0	.0	727.7
Total infrequently browsed	2,871.9	75.6	38.7	5.8	2,992.0
Red ash	7.8	.0	.0	.0	7.8
Witch-hazel	1.9	.0	.0	.0	1.9
Rhododendron	3.9	.0	.0	.0	3.9
Gooseberries	64.5	.0	.0	.0	64.5
Total questionable	78.1	.0	.0	.0	78.1
Unclassified species	991.4	160.0	31.0	1.9	1,184.3
Total all species	18,921.7	1,529.7	366.7	95.3	20,913.4
Sampling error (percent)	8	15	25	31	7

Table 54.--Area of timberland by forest type, forest-type group, and stand-size class, Piscataquis County, Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
White pine	31.4	20.9	.0	.0	52.3
White pine/hemlock	12.3	.0	.0	.0	12.3
Hemlock	21.1	10.4	.0	.0	31.5
White/red pine group	64.8	31.3	.0	.0	96.1
Balsam fir	42.2	41.9	31.5	.0	115.6
Red spruce	106.8	156.3	20.5	.0	283.6
Red spruce/balsam fir	456.9	129.4	75.3	.0	661.6
White spruce	10.5	.0	.0	.0	10.5
Black spruce	.0	10.5	.0	.0	10.5
Northern white-cedar	182.3	20.4	41.9	.0	244.6
Tamarack	10.5	10.5	10.5	.0	31.5
Spruce/fir group	809.2	369.0	179.7	.0	1,357.9
Mixed central hardwoods	10.5	.0	.0	.0	10.5
Oak/hickory group	10.5	.0	.0	.0	10.5
Black ash/Amer. elm/red maple	.0	10.5	.0	.0	10.5
Elm/ash/red maple group	.0	10.5	.0	.0	10.5
Sugar maple/beech/yellow birch	303.6	127.8	30.9	.0	462.3
Red maple/northern hardwoods	75.5	45.5	22.9	.0	143.9
Mixed northern hardwoods	10.5	31.4	10.5	.0	52.4
Northern hardwoods group	389.6	204.7	64.3	.0	658.6
Aspen	10.5	52.6	20.4	.0	83.5
Paper birch	.0	.0	21.0	.0	21.0
Aspen/birch group	10.5	52.6	41.4	.0	104.5
All forest types	1,284.6	668.1	285.4	.0	2,238.1

Table 55.--Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Piscataquis County, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Beech	8,076	5,406	4,815	2,219	1,569	682	271	19	36	0	23,093	17
Apple	219	73	0	0	0	0	0	0	0	0	292	61
Eastern hophornbeam	737	578	0	0	0	0	0	0	0	0	1,315	42
Pin cherry	73	0	0	0	0	0	0	0	0	0	73	100
Black cherry	0	143	0	60	0	0	0	0	0	0	203	77
Chokecherry	201	0	0	0	0	0	0	0	0	0	201	100
Northern red oak	0	0	0	0	36	0	23	37	37	0	133	78
Total, all species	9,306	6,200	4,815	2,279	1,605	682	294	56	73	0	25,310	16
Sampling error (percent)	20	19	21	20	21	28	36	74	71	-	16	

Table 56.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Piscataquis County, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	192,428	473,752	5,164,167	70,358	5,900,705
Saplings	47,860	477,537	10,685	0	536,082
Total sawtimber	240,288	951,289	5,174,852	70,358	6,436,787
Poletimber:					
Shrubs	100,262	775,951	2,472,061	76,956	3,425,230
Saplings	47,389	338,231	0	0	385,620
Total poletimber	147,651	1,114,182	2,472,061	76,956	3,810,850
Sapling/seedling:					
Shrubs	55,745	469,098	1,585,523	48,934	2,159,300
Saplings	2,127	159,094	14,812	0	176,033
Total sapling/seedling	57,872	628,192	1,600,335	48,934	2,335,333
Nonstocked:					
Shrubs	0	0	0	0	0
Saplings	0	0	0	0	0
Total nonstocked	0	0	0	0	0
Total, all classes	445,811	2,693,663	9,247,248	196,248	12,582,970

Table 57.--Number of standing dead trees on timberland by species, condition class, and diameter class, Piscataquis County, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0-10.9	11.0-14.9	15+	Total	5.0-10.9	11.0-14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	13,374	387	0	13,761	14,472	527	103	15,102	28,863	12
Tamarack	147	109	0	256	284	46	0	330	586	71
White spruce	390	43	0	433	446	0	0	446	879	36
Black spruce	144	37	0	181	419	100	0	519	700	51
Red spruce	4,460	241	61	4,762	2,737	398	328	3,463	8,225	16
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	79	43	47	169	529	119	72	720	889	35
Northern white-cedar	3,375	1,442	908	5,725	2,420	783	377	3,580	9,305	17
Hemlock	86	43	0	129	172	36	32	240	369	83
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	22,055	2,345	1,016	25,416	21,479	2,009	912	24,400	49,816	9
Sugar maple	220	0	0	220	363	184	173	720	940	31
Red maple	693	37	36	766	1,624	283	32	1,939	2,705	24
Yellow birch	367	44	13	424	1,280	1,037	1,258	3,575	3,999	13
Paper birch	1,015	164	0	1,179	1,909	223	151	2,283	3,462	21
Gray birch	333	0	0	333	340	0	0	340	673	72
Beech	441	111	57	609	514	487	550	1,551	2,160	26
White ash	0	0	10	10	153	35	0	188	198	79
Black ash	146	36	0	182	552	194	37	783	965	52
Aspen	366	36	0	402	2,198	320	79	2,597	2,999	45
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	37	37	0	0	0	0	37	100
Other hardwoods	1,223	0	0	1,223	722	0	190	912	2,135	40
Total hardwoods	4,804	428	153	5,385	9,655	2,763	2,470	14,888	20,273	11
Total, all species	26,859	2,773	1,169	30,801	31,134	4,772	3,382	39,288	70,089	7
Sampling error (percent)	11	16	24	11	9	11	13	7	7	

Table 58.--Number of trees with observed cavities on timberland by species and condition class, Piscataquis County, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	Thousand trees									Percent
Balsam fir	1,889	527	0	0	2,416	477	2,390	2,867	5,283	19
Tamarack	0	0	0	0	0	0	248	248	248	100
White spruce	237	0	0	0	237	37	0	37	274	76
Black spruce	0	0	0	59	59	0	122	122	181	75
Red spruce	261	117	0	0	378	86	723	809	1,187	24
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	219	0	0	0	219	0	91	91	310	48
Northern white-cedar	1,383	1,468	73	346	3,270	1,143	1,259	2,402	5,672	16
Hemlock	37	9	0	0	46	0	68	68	114	54
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	4,026	2,121	73	405	6,625	1,743	4,901	6,644	13,269	12
Sugar maple	1,061	783	0	0	1,844	0	266	266	2,110	27
Red maple	1,164	1,553	0	36	2,753	73	1,094	1,167	3,920	21
Yellow birch	638	265	0	0	903	86	1,767	1,853	2,756	16
Paper birch	299	233	0	0	532	0	536	536	1,068	27
Gray birch	74	0	0	0	74	0	0	0	74	100
Beech	804	1,440	0	72	2,316	37	922	959	3,275	28
White ash	17	0	0	0	17	10	35	45	62	85
Black ash	74	0	74	0	148	0	110	110	258	77
Aspen	147	184	0	0	331	0	645	645	976	32
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	0	0	0	37	0	37	37	100
Other hardwoods	0	180	0	0	180	159	184	343	523	39
Total hardwoods	4,278	4,638	74	108	9,098	402	5,559	5,961	15,059	12
Total, all species	8,304	6,759	147	513	15,723	2,145	10,460	12,605	28,328	9
Sampling error (percent)	15	14	61	39		18	11		9	

Table 59.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Piscataquis County, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Northern white-cedar	196.8	252.8	78.9	.0	528.5	32	7
Eastern hemlock	36.8	27.8	2.1	.0	66.7	39	16
Striped maple	778.8	382.5	159.8	.0	1,321.1	13	3
Red maple	726.0	638.2	235.7	.0	1,599.9	13	3
Mountain maple	311.4	94.6	78.5	.0	484.5	21	3
Smooth sumac	12.9	.0	.0	.0	12.9	74	s[a]
Staghorn sumac	.0	4.3	.0	.0	4.3	100	s
Mountain ash	17.4	2.1	21.4	.0	40.9	57	s
Hobblebush viburnum	581.2	90.0	44.7	.0	715.9	24	s
Total readily browsed	2,661.3	1,492.3	621.1	.0	4,774.7	8	
Balsam fir	1,860.3	1,051.2	1,044.0	.0	3,955.5	9	9
White pine	21.1	6.4	14.5	.0	42.0	33	15
Sugar maple	1,666.8	424.4	66.5	.0	2,157.7	21	1
Shadbush	4.3	2.1	.0	.0	6.4	58	s
Yellow birch	614.4	142.8	102.5	.0	859.7	15	7
Paper birch	62.6	57.6	333.6	.0	453.8	28	16
Red-osier dogwood	32.5	87.3	37.1	.0	156.9	45	s
American hazelnut	107.4	57.9	53.6	.0	218.9	35	s
Beaked hazelnut	85.1	42.3	2.1	.0	129.5	41	s
Beech	375.3	186.4	47.6	.0	609.3	17	16
White ash	36.3	198.7	27.7	.0	262.7	43	3
Black ash	98.9	18.9	2.1	.0	119.9	32	7
Winterberry	.0	4.3	4.2	.0	8.5	70	s
Honeysuckle	148.8	66.4	15.0	.0	230.2	29	s
Balsam poplar	6.5	4.3	2.1	.0	12.9	57	0
Bigtooth aspen	.0	2.1	23.4	.0	25.5	92	0
Quaking aspen	32.4	70.4	25.2	.0	128.0	43	13
Pin cherry	64.5	63.5	53.1	.0	181.1	31	7
Black cherry	14.9	125.4	32.7	.0	173.0	41	4
Chokecherry	23.5	.0	2.1	.0	25.6	47	s
Brambles	3,906.6	2,020.7	1,147.0	.0	7,074.3	20	s
Willows	.0	8.1	27.7	.0	35.8	45	12
Red-berried elder	13.1	.0	32.2	.0	45.3	73	s
Blueberries	53.9	105.5	92.3	.0	251.7	47	s
Sweetfern	12.8	53.2	.0	.0	66.0	46	s
Maple-leaf viburnum	69.4	.0	2.1	.0	71.5	53	s
Wild raisin	.0	10.6	21.3	.0	31.9	74	s
Total commonly browsed	9,311.4	4,810.5	3,211.7	.0	17,333.6	9	

Table 59.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Tamarack	.0	2.1	6.4	.0	8.5	79	100
White spruce	59.5	19.2	4.3	.0	83.0	33	42
Black spruce	26.8	4.3	6.4	.0	37.5	35	29
Red spruce	606.4	281.7	495.8	.0	1,383.9	16	13
Speckled alder	138.8	132.1	288.0	.0	558.9	35	s
Bog Rosemary	.0	22.5	.0	.0	22.5	100	s
Gray birch	.0	6.4	.0	.0	6.4	74	33
Lambkill	22.8	106.6	.0	.0	129.4	50	s
Labrador tea	4.3	27.7	102.1	.0	134.1	79	s
Eastern hophornbeam	21.4	4.3	.0	.0	25.7	65	0
Red oak	4.3	6.8	.0	.0	11.1	59	0
Spiraea	4.3	148.9	19.1	.0	172.3	84	s
Total infrequently browsed	888.6	762.6	922.1	.0	2,573.3	15	
Red ash	10.6	.0	.0	.0	10.6	100	s
Witch-hazel	8.5	.0	38.6	.0	47.1	83	s
Rhododendron	14.9	.0	.0	.0	14.9	100	s
Gooseberries	292.4	10.6	142.8	.0	445.8	40	s
Total questionable	326.4	10.6	181.4	.0	518.4	35	
Unclassified species	421.1	440.6	138.2	.0	999.9	27	
Total all species	13,608.8	7,516.6	5,074.5	.0	26,199.9	7	
Sampling error (percent)	11	18	21	-	7		

[a] Classed as shrub species.

Table 60.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Piscataquis County, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	18.5	446.2	.0	46.8	17.0	.0	528.5
Eastern hemlock	.0	11.0	.0	.0	55.7	.0	66.7
Striped maple	32.4	467.8	10.7	.0	705.0	105.2	1,321.1
Red maple	40.7	941.6	15.0	51.1	498.0	53.5	1,599.9
Mountain maple	13.2	209.2	.0	.0	251.4	10.7	484.5
Smooth sumac	.0	.0	.0	.0	12.9	.0	12.9
Staghorn sumac	.0	4.3	.0	.0	.0	.0	4.3
Mountain ash	.0	30.2	.0	.0	10.7	.0	40.9
Hobblebush viburnum	21.3	273.0	4.3	.0	413.0	4.3	715.9
Total readily browsed	126.1	2,383.3	30.0	97.9	1,963.7	173.7	4,774.7
Balsam fir	149.7	2,502.9	.0	34.0	1,110.7	158.2	3,955.5
White pine	6.4	11.8	.0	.0	13.6	10.2	42.0
Sugar maple	203.1	377.3	32.2	.0	1,513.0	32.1	2,157.7
Shadbush	.0	2.1	.0	.0	4.3	.0	6.4
Yellow birch	17.1	412.2	2.2	.0	419.6	8.6	859.7
Paper birch	11.0	300.2	.0	.0	72.1	70.5	453.8
Red-osier dogwood	12.8	102.7	.0	.0	17.0	24.4	156.9
American hazelnut	25.5	71.1	.0	.0	96.5	25.8	218.9
Beaked hazelnut	.0	71.0	.0	.0	56.4	2.1	129.5
Beech	30.0	64.9	2.1	.0	465.2	47.1	609.3
White ash	153.4	25.6	2.2	.0	45.1	36.4	262.7
Black ash	.0	100.6	.0	4.3	12.9	2.1	119.9
Winterberry	.0	4.2	.0	4.3	.0	.0	8.5
Honeysuckle	22.0	167.5	6.4	.0	12.8	21.5	230.2
Balsam poplar	.0	10.8	.0	.0	.0	2.1	12.9
Bigtooth aspen	2.1	23.4	.0	.0	.0	.0	25.5
Quaking aspen	6.4	36.4	.0	.0	4.3	80.9	128.0
Pin cherry	.0	108.7	.0	.0	30.3	42.1	181.1
Black cherry	38.4	128.2	.0	.0	4.3	2.1	173.0
Chokecherry	4.3	21.3	.0	.0	.0	.0	25.6
Brambles	45.1	4,211.2	4.3	.0	2,361.1	452.6	7,074.3
Willows	.0	27.3	.0	.0	6.4	2.1	35.8
Red-berried elder	.0	11.0	.0	.0	34.3	.0	45.3
Blueberries	2.1	146.6	.0	.0	15.0	88.0	251.7
Sweetfern	.0	36.2	.0	.0	29.8	.0	66.0
Maple-leaf viburnum	.0	26.4	.0	.0	45.1	.0	71.5
Wild raisin	.0	31.9	.0	.0	.0	.0	31.9
Total commonly browsed	729.4	9,033.5	49.4	42.6	6,369.8	1,108.9	17,333.6

Table 60.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Tamarack	2.1	6.4	.0	.0	.0	.0	8.5
White spruce	8.5	61.6	.0	.0	12.9	.0	83.0
Black spruce	.0	33.2	.0	.0	4.3	.0	37.5
Red spruce	22.4	1,087.1	2.2	.0	257.2	15.0	1,383.9
Speckled alder	.0	492.8	.0	.0	17.1	49.0	558.9
Bog Rosemary	.0	22.5	.0	.0	.0	.0	22.5
Gray birch	.0	4.3	.0	2.1	.0	.0	6.4
Lambkill	.0	76.2	.0	.0	53.2	.0	129.4
Labrador tea	.0	106.4	.0	.0	27.7	.0	134.1
Eastern hophornbeam	6.4	.0	.0	.0	19.3	.0	25.7
Red oak	4.3	.0	4.3	.0	2.5	.0	11.1
Spiraea	.0	172.3	.0	.0	.0	.0	172.3
Total infrequently browsed	43.7	2,062.8	6.5	2.1	394.2	64.0	2,573.3
Red ash	.0	.0	.0	.0	10.6	.0	10.6
Witch-hazel	.0	45.0	2.1	.0	.0	.0	47.1
Rhododendron	14.9	.0	.0	.0	.0	.0	14.9
Gooseberries	.0	304.2	.0	.0	128.8	12.8	445.8
Total questionable	14.9	349.2	2.1	.0	139.4	12.8	518.4
Unclassified species	42.9	733.0	.0	48.9	130.4	44.7	999.9
Total all species	957.0	14,561.8	88.0	191.5	8,997.5	1,404.1	26,199.9
Sampling error (percent)	38	11	100	100	16	39	7

Table 61.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Piscataquis County, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	522.1	4.3	2.1	.0	528.5
Eastern hemlock	49.7	17.0	.0	.0	66.7
Striped maple	739.5	495.7	79.4	6.5	1,321.1
Red maple	951.5	453.7	171.2	23.5	1,599.9
Mountain maple	302.9	162.4	19.2	.0	484.5
Smooth sumac	12.9	.0	.0	.0	12.9
Staghorn sumac	4.3	.0	.0	.0	4.3
Mountain ash	21.7	2.1	12.8	4.3	40.9
Hobblebush viburnum	370.4	168.5	98.2	78.8	715.9
Total readily browsed	2,975.0	1,303.7	382.9	113.1	4,774.7
Balsam fir	3,427.5	464.8	58.2	5.0	3,955.5
White pine	39.9	.0	.0	2.1	42.0
Sugar maple	1,389.7	727.0	41.0	.0	2,157.7
Shadbush	4.3	.0	2.1	.0	6.4
Yellow birch	592.4	229.3	33.8	4.2	859.7
Paper birch	376.8	62.0	15.0	.0	453.8
Red-osier dogwood	52.0	4.3	100.6	.0	156.9
American hazelnut	87.9	117.8	13.2	.0	218.9
Beaked hazelnut	123.1	.0	.0	6.4	129.5
Beech	373.5	169.3	64.3	2.2	609.3
White ash	171.0	74.6	10.7	6.4	262.7
Black ash	81.3	34.3	.0	4.3	119.9
Winterberry	.0	4.2	4.3	.0	8.5
Honeysuckle	178.8	45.0	6.4	.0	230.2
Balsam poplar	12.9	.0	.0	.0	12.9
Bigtooth aspen	25.5	.0	.0	.0	25.5
Quaking aspen	85.3	40.6	.0	2.1	128.0
Pin cherry	123.3	27.9	23.8	6.1	181.1
Black cherry	69.2	86.7	10.7	6.4	173.0
Chokecherry	17.0	2.1	6.5	.0	25.6
Brambles	6,827.4	242.6	.0	4.3	7,074.3
Willows	25.4	.0	.0	10.4	35.8
Red-berried elder	36.4	.0	8.9	.0	45.3
Blueberries	137.9	92.3	21.5	.0	251.7
Sweetfern	34.1	27.6	4.3	.0	66.0
Maple-leaf viburnum	23.6	40.8	.0	7.1	71.5
Wild raisin	29.8	2.1	.0	.0	31.9
Total commonly browsed	14,346.0	2,495.3	425.3	67.0	17,333.6

Table 61.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	8.5	.0	.0	.0	8.5
White spruce	83.0	.0	.0	.0	83.0
Black spruce	37.5	.0	.0	.0	37.5
Red spruce	1,306.5	60.2	17.2	.0	1,383.9
Speckled alder	516.3	42.6	.0	.0	558.9
Bog Rosemary	10.0	.0	12.5	.0	22.5
Gray birch	6.4	.0	.0	.0	6.4
Lambkill	129.4	.0	.0	.0	129.4
Labrador tea	134.1	.0	.0	.0	134.1
Eastern hophornbeam	17.2	6.4	.0	2.1	25.7
Red oak	11.1	.0	.0	.0	11.1
Spiraea	134.0	38.3	.0	.0	172.3
Total infrequently browsed	2,394.0	147.5	29.7	2.1	2,573.3
Red ash	10.6	.0	.0	.0	10.6
Witch-hazel	47.1	.0	.0	.0	47.1
Rhododendron	14.9	.0	.0	.0	14.9
Gooseberries	441.6	4.2	.0	.0	445.8
Total questionable	514.2	4.2	.0	.0	518.4
Other species	652.2	296.8	16.7	34.2	999.9
Total all species	20,881.4	4,247.5	854.6	216.4	26,199.9
Sampling error (percent)	8	12	19	51	7

Table 62.--Area of timberland by forest type, forest-type group, and stand-size class, Somerset County, Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
Red pine	10.4	.0	.0	.0	10.4
White pine	41.4	20.7	10.3	.0	72.4
White pine/hemlock	20.7	10.3	.0	.0	31.0
Hemlock	10.3	41.4	10.4	.0	62.1
White/red pine group	82.8	72.4	20.7	.0	175.9
Balsam fir	83.1	72.7	31.1	.0	186.9
Red spruce	93.1	83.4	.0	.0	176.5
Red spruce/balsam fir	333.2	217.6	82.7	.0	633.5
Black spruce	.0	51.8	.0	.0	51.8
Northern white-cedar	145.2	51.7	10.3	.0	207.2
Spruce/fir group	654.6	477.2	124.1	.0	1,255.9
Northern red oak	.0	10.4	.0	.0	10.4
Oak/hickory group	.0	10.4	.0	.0	10.4
Black ash/Amer. elm/red maple	.0	10.3	.0	.0	10.3
Willow	10.4	.0	.0	.0	10.4
Elm/ash/red maple group	10.4	10.3	.0	.0	20.7
Sugar maple/beech/yellow birch	425.9	124.5	20.7	.0	571.1
Red maple/northern hardwoods	31.1	41.4	20.7	.0	93.2
Pin cherry/reverting field	.0	.0	20.7	.0	20.7
Mixed northern hardwoods	20.7	31.0	10.4	.0	62.1
Northern hardwoods group	477.7	196.9	72.5	.0	747.1
Aspen	21.0	31.1	20.7	.0	72.8
Paper birch	10.3	41.4	.0	.0	51.7
Aspen/birch group	31.3	72.5	20.7	.0	124.5
All forest types	1,256.8	839.7	238.0	.0	2,334.5

Table 63.--Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Somerset County, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Beech	8,952	5,293	3,534	2,104	965	516	337	0	79	0	21,780	19
Butternut	0	72	0	55	0	0	0	0	0	0	127	100
Apple	0	240	0	0	0	0	0	0	0	0	240	100
Eastern hophornbeam	1,157	519	0	0	0	0	0	0	0	0	1,676	40
Pin cherry	1,157	289	0	0	0	0	0	0	0	0	1,446	38
Black cherry	559	162	0	0	0	0	0	0	0	0	721	59
Northern red oak	440	72	238	0	42	0	0	0	48	0	840	65
Total, all species	12,265	6,647	3,772	2,159	1,007	516	337	0	127	0	26,830	17
Sampling error (percent)	19	19	25	24	25	30	46	-	51	-	17	

Table 64.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Somerset County, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	353,197	428,141	3,521,917	137,147	4,440,402
Saplings	39,979	518,510	10,569	2,100	571,158
Total sawtimber	393,176	946,651	3,532,486	139,247	5,011,560
Poletimber:					
Shrubs	142,940	874,060	2,528,401	98,730	3,644,131
Saplings	27,306	536,222	10,490	8,409	582,427
Total poletimber	170,246	1,410,282	2,538,891	107,139	4,226,558
Sapling/seedling:					
Shrubs	2,107	298,159	2,419,939	67,255	2,787,460
Saplings	0	111,390	33,629	0	145,019
Total sapling/seedling	2,107	409,549	2,453,568	67,255	2,932,479
Nonstocked:					
Shrubs	0	0	0	0	0
Saplings	0	0	0	0	0
Total nonstocked	0	0	0	0	0
Total, all classes	565,529	2,766,482	8,524,945	313,641	12,170,597

Table 65.--Number of standing dead trees on timberland by species, condition class, and diameter class, Somerset County, Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0-10.9	11.0-14.9	15+	Total	5.0-10.9	11.0-14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	12,509	642	0	13,151	10,004	1,224	20	11,248	24,399	11
Tamarack	288	36	0	324	108	0	0	108	432	100
White spruce	218	0	0	218	72	36	0	108	326	55
Black spruce	642	0	0	642	108	0	0	108	750	44
Red spruce	2,319	215	25	2,559	1,683	329	36	2,048	4,607	20
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	180	0	36	216	324	72	118	514	730	39
Northern white-cedar	2,666	729	111	3,506	2,059	571	168	2,798	6,304	22
Hemlock	144	36	0	180	0	75	51	126	306	47
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	18,966	1,658	172	20,796	14,358	2,307	393	17,058	37,854	9
Sugar maple	535	0	0	535	467	270	273	1,010	1,545	38
Red maple	889	72	0	961	1,399	284	36	1,719	2,680	29
Yellow birch	354	87	138	579	1,657	881	1,586	4,124	4,703	16
Paper birch	274	50	0	324	3,171	674	258	4,103	4,427	16
Gray birch	144	0	0	144	216	0	0	216	360	44
Beech	761	181	83	1,025	869	382	285	1,536	2,561	29
White ash	72	0	0	72	0	95	87	182	254	55
Black ash	72	0	0	72	290	0	0	290	362	60
Aspen	974	77	0	1,051	989	158	0	1,147	2,198	39
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	502	110	36	648	0	0	0	0	648	63
Other hardwoods	912	0	0	912	1,079	0	151	1,230	2,142	33
Total hardwoods	5,489	577	257	6,323	10,137	2,744	2,676	15,557	21,880	9
Total, all species	24,455	2,235	429	27,119	24,495	5,051	3,069	32,615	59,734	7
Sampling error (percent)	11	15	30	10	8	11	11	7	7	

Table 66.--Number of trees with observed cavities on timberland by species and condition class, Somerset County, Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	-------------	-------------	-------------	-------------	Thousand trees	-------------	-------------	-------------	-------------	Percent
Balsam fir	771	531	0	144	1,446	884	1,607	2,491	3,937	18
Tamarack	36	0	0	0	36	0	0	0	36	100
White spruce	36	0	0	0	36	72	0	72	108	74
Black spruce	0	0	0	0	0	0	0	0	0	0
Red spruce	238	141	0	0	379	61	180	241	620	25
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	36	0	0	0	36	36	51	87	123	49
Northern white-cedar	546	925	0	70	1,541	884	766	1,650	3,191	17
Hemlock	36	22	0	0	58	0	72	72	130	51
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	1,699	1,619	0	214	3,532	1,937	2,676	4,613	8,145	12
Sugar maple	1,099	835	72	0	2,006	66	414	480	2,486	20
Red maple	412	700	0	0	1,112	0	431	431	1,543	22
Yellow birch	389	740	0	15	1,144	144	2,228	2,372	3,516	14
Paper birch	72	410	0	0	482	0	1,598	1,598	2,080	24
Gray birch	0	0	0	0	0	0	0	0	0	0
Beech	108	752	55	75	990	108	513	621	1,611	24
White ash	0	0	0	0	0	0	110	110	110	100
Black ash	0	0	0	0	0	0	72	72	72	100
Aspen	171	72	0	0	243	72	283	355	598	36
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	36	0	0	0	36	0	0	0	36	100
Basswood	36	0	0	0	36	0	0	0	36	100
Elm	0	0	0	0	0	100	0	100	100	100
Other hardwoods	72	216	0	0	288	0	368	368	656	39
Total hardwoods	2,395	3,725	127	90	6,337	490	6,017	6,507	12,844	9
Total, all species	4,094	5,344	127	304	9,869	2,427	8,693	11,120	20,989	8
Sampling error (percent)	14	15	58	56		20	10		8	

Table 67.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Somerset County, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Northern white-cedar	151.3	98.8	63.0	.0	313.1	27	9
Eastern hemlock	37.8	12.6	4.2	.0	54.6	37	15
Striped maple	800.1	208.1	23.1	.0	1,031.3	15	5
Red maple	798.0	549.2	176.6	.0	1,523.8	12	10
Mountain maple	711.9	203.9	12.6	.0	928.4	16	5
Apple	.0	.0	2.1	.0	2.1	100	0
Smooth sumac	6.3	2.1	.0	.0	8.4	61	s[a]
Staghorn sumac	2.1	.0	.0	.0	2.1	100	s
Mountain ash	2.2	.0	.0	.0	2.2	100	s
Hobblebush viburnum	835.3	140.9	14.7	.0	990.9	18	s
Total readily browsed	3,345.0	1,215.6	296.3	.0	4,856.9	7	
Balsam fir	1,396.5	1,442.5	357.1	.0	3,196.1	12	14
White pine	14.7	21.0	.0	.0	35.7	36	35
Sugar maple	1,381.9	382.4	77.7	.0	1,842.0	15	3
Shadbush	.0	8.4	.0	.0	8.4	61	s
Yellow birch	400.0	168.1	33.7	.0	601.8	16	14
Paper birch	302.9	174.7	163.9	.0	641.5	17	9
Red-osier dogwood	.0	21.0	46.4	.0	67.4	69	s
American hazelnut	132.3	79.9	.0	.0	212.2	38	s
Beaked hazelnut	220.9	63.0	2.1	.0	286.0	37	s
Beech	299.6	155.5	8.4	.0	463.5	21	12
White ash	48.4	71.5	16.8	.0	136.7	29	6
Black ash	10.5	37.8	4.2	.0	52.5	34	36
Winterberry	.0	4.2	.0	.0	4.2	100	s
Honeysuckle	78.3	145.0	2.1	.0	225.4	32	s
Mountain holly	.0	29.4	.0	.0	29.4	100	s
Balsam poplar	14.7	.0	19.0	.0	33.7	63	6
Bigtooth aspen	2.2	12.6	.0	.0	14.8	87	0
Quaking aspen	79.3	56.7	71.4	.0	207.4	32	4
Pin cherry	82.0	27.3	98.9	.0	208.2	33	12
Black cherry	31.5	8.4	.0	.0	39.9	62	11
Chokecherry	14.7	2.1	23.1	.0	39.9	55	s
Brambles	2,195.8	1,739.4	2,201.3	.0	6,136.5	19	s
Willows	.0	.0	6.3	.0	6.3	75	0

Table 67.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Red-berried elder	4.3	14.9	2.1	.0	21.3	47	s
American elm	2.1	14.7	.0	.0	16.8	58	25
Blueberries	18.9	128.2	12.6	.0	159.7	37	s
Sweetfern	27.3	29.4	.0	.0	56.7	56	s
Maple-leaf viburnum	2.1	63.4	.0	.0	65.5	77	s
Wild raisin	6.3	79.9	6.3	.0	92.5	46	s
Total commonly browsed	6,767.2	4,981.4	3,153.4	.0	14,902.0	9	
Tamarack	.0	2.1	.0	.0	2.1	100	100
White spruce	29.4	16.8	12.6	.0	58.8	30	43
Black spruce	10.6	140.8	4.2	.0	155.6	41	11
Red spruce	462.9	286.0	111.3	.0	860.2	15	17
Speckled alder	245.2	478.9	23.1	.0	747.2	26	s
Black chokecherry	8.4	.0	.0	.0	8.4	100	s
Gray birch	2.1	6.3	.0	.0	8.4	50	75
Lambkill	155.5	178.7	98.6	.0	432.8	47	s
Labrador tea	.0	124.0	.0	.0	124.0	82	s
Eastern hophornbeam	4.2	10.5	.0	.0	14.7	55	57
Red oak	4.3	.0	25.2	.0	29.5	86	0
Spiraea	4.2	.0	41.9	.0	46.1	91	s
Total infrequently browsed	926.8	1,244.1	316.9	.0	2,487.8	16	
Witch-hazel	2.1	8.4	.0	.0	10.5	66	s
Gooseberries	263.2	35.9	132.4	.0	431.5	30	s
Total questionable	265.3	44.3	132.4	.0	442.0	29	
Unclassified species	259.4	397.1	357.1	.0	1,013.6	21	
Total all species	11,563.7	7,882.5	4,256.1	.0	23,702.3	6	
Sampling error (percent)	10	14	24	-	6		

[a] Classed as shrub species.

Table 68.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Somerset County, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	2.1	218.5	.0	.0	92.5	.0	313.1
Eastern hemlock	23.1	2.1	2.1	.0	21.0	6.3	54.6
Striped maple	18.9	379.5	.0	.0	511.1	121.8	1,031.3
Red maple	60.9	875.4	6.3	2.1	517.8	61.3	1,523.8
Mountain maple	2.1	470.9	.0	.0	386.8	68.6	928.4
Apple	.0	.0	.0	.0	.0	2.1	2.1
Smooth sumac	.0	8.4	.0	.0	.0	.0	8.4
Staghorn sumac	.0	2.1	.0	.0	.0	.0	2.1
Mountain ash	.0	2.2	.0	.0	.0	.0	2.2
Hobblebush viburnum	.0	196.5	.0	4.2	790.2	.0	990.9
Total readily browsed	107.1	2,155.6	8.4	6.3	2,319.4	260.1	4,856.9
Balsam fir	243.6	2,376.4	.0	6.3	422.7	147.1	3,196.1
White pine	14.7	18.9	.0	.0	.0	2.1	35.7
Sugar maple	56.8	344.9	.0	6.3	1,402.3	31.7	1,842.0
Shadbush	.0	6.3	.0	.0	2.1	.0	8.4
Yellow birch	.0	303.3	.0	.0	296.4	2.1	601.8
Paper birch	.0	481.8	2.2	.0	126.0	31.5	641.5
Red-osier dogwood	.0	6.3	.0	.0	44.2	16.9	67.4
American hazelnut	12.6	12.6	8.4	.0	107.1	71.5	212.2
Beaked hazelnut	.0	218.8	.0	2.1	63.0	2.1	286.0
Beech	31.5	25.5	.0	.0	387.6	18.9	463.5
White ash	25.2	6.5	.0	2.1	73.5	29.4	136.7
Black ash	2.1	35.7	.0	4.2	8.4	2.1	52.5
Winterberry	.0	4.2	.0	.0	.0	.0	4.2
Honeysuckle	4.2	174.7	2.1	.0	44.4	.0	225.4
Mountain holly	.0	29.4	.0	.0	.0	.0	29.4
Balsam poplar	.0	12.6	.0	.0	21.1	.0	33.7
Bigtooth aspen	.0	.0	.0	.0	14.8	.0	14.8
Quaking aspen	14.7	77.7	.0	4.2	29.7	81.1	207.4
Pin cherry	50.4	37.9	2.1	.0	117.8	.0	208.2
Black cherry	.0	27.3	.0	6.3	.0	6.3	39.9
Chokecherry	12.6	8.4	.0	.0	16.8	2.1	39.9
Brambles	264.6	2,553.2	.0	79.9	3,117.9	120.9	6,136.5
Willows	.0	4.2	.0	.0	.0	2.1	6.3

Table 68.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Red-berried elder	.0	10.7	.0	.0	8.5	2.1	21.3
American elm	2.1	4.2	.0	2.1	.0	8.4	16.8
Blueberries	12.6	119.8	.0	.0	25.2	2.1	159.7
Sweetfern	.0	29.4	.0	.0	.0	27.3	56.7
Maple-leaf viburnum	.0	15.1	.0	.0	50.4	.0	65.5
Wild raisin	6.3	79.9	.0	.0	.0	6.3	92.5
Total commonly browsed	754.0	7,025.7	14.8	113.5	6,379.9	614.1	14,902.0
Tamarack	.0	2.1	.0	.0	.0	.0	2.1
White spruce	.0	50.4	.0	.0	8.4	.0	58.8
Black spruce	.0	151.4	.0	.0	4.2	.0	155.6
Red spruce	6.3	744.6	.0	.0	98.8	10.5	860.2
Speckled alder	.0	646.4	.0	21.0	14.7	65.1	747.2
Black chokecherry	.0	8.4	.0	.0	.0	.0	8.4
Gray birch	2.1	.0	.0	.0	6.3	.0	8.4
Lambkill	254.2	178.6	.0	.0	.0	.0	432.8
Labrador tea	.0	124.0	.0	.0	.0	.0	124.0
Eastern hophornbeam	6.3	.0	.0	.0	8.4	.0	14.7
Red oak	25.2	.0	.0	.0	4.3	.0	29.5
Spiraea	44.0	.0	.0	.0	2.1	.0	46.1
Total infrequently browsed	338.1	1,905.9	.0	21.0	147.2	75.6	2,487.8
Witch-hazel	.0	2.1	2.1	.0	.0	6.3	10.5
Gooseberries	.0	246.0	.0	.0	170.7	14.8	431.5
Total questionable	.0	248.1	2.1	.0	170.7	21.1	442.0
Unclassified species	100.7	574.2	.0	4.3	267.1	67.3	1,013.6
Total all species	1,299.9	11,909.5	25.3	145.1	9,284.3	1,038.2	23,702.3
Sampling error (percent)	34	10	100	81	15	32	6

Table 69.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Somerset County, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	302.6	2.1	8.4	.0	313.1
Eastern hemlock	52.5	2.1	.0	.0	54.6
Striped maple	725.9	202.5	81.9	21.0	1,031.3
Red maple	1,059.4	250.7	162.3	51.4	1,523.8
Mountain maple	694.0	202.9	14.7	16.8	928.4
Apple	2.1	.0	.0	.0	2.1
Smooth sumac	8.4	.0	.0	.0	8.4
Staghorn sumac	2.1	.0	.0	.0	2.1
Mountain ash	2.2	.0	.0	.0	2.2
Hobblebush viburnum	925.7	56.7	8.5	.0	990.9
Total readily browsed	3,774.9	717.0	275.8	89.2	4,856.9
Balsam fir	2,941.6	218.8	35.7	.0	3,196.1
White pine	33.6	.0	2.1	.0	35.7
Sugar maple	1,312.0	299.4	228.5	2.1	1,842.0
Shadbush	4.2	.0	2.1	2.1	8.4
Yellow birch	449.6	118.5	29.5	4.2	601.8
Paper birch	475.5	88.3	73.5	4.2	641.5
Red-osier dogwood	52.7	.0	14.7	.0	67.4
American hazelnut	138.7	69.3	4.2	.0	212.2
Beaked hazelnut	227.1	58.9	.0	.0	286.0
Beech	378.4	64.1	12.6	8.4	463.5
White ash	33.6	58.9	29.4	14.8	136.7
Black ash	48.3	.0	4.2	.0	52.5
Winterberry	4.2	.0	.0	.0	4.2
Honeysuckle	189.7	25.2	8.4	2.1	225.4
Mountain holly	29.4	.0	.0	.0	29.4
Balsam poplar	33.7	.0	.0	.0	33.7
Bigtooth aspen	14.8	.0	.0	.0	14.8
Quaking aspen	186.4	8.4	12.6	.0	207.4
Pin cherry	193.4	4.3	10.5	.0	208.2
Black cherry	39.9	.0	.0	.0	39.9
Chokecherry	21.0	2.1	16.8	.0	39.9
Brambles	5,833.9	302.6	.0	.0	6,136.5
Willows	6.3	.0	.0	.0	6.3
Red-berried elder	19.2	2.1	.0	.0	21.3
American elm	16.8	.0	.0	.0	16.8
Blueberries	140.8	18.9	.0	.0	159.7
Sweetfern	39.9	.0	16.8	.0	56.7
Maple-leaf viburnum	42.4	.0	23.1	.0	65.5
Wild raisin	82.0	10.5	.0	.0	92.5
Total commonly browsed	12,989.1	1,350.3	524.7	37.9	14,902.0

Table 69.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	2.1	.0	.0	.0	2.1
White spruce	58.8	.0	.0	.0	58.8
Black spruce	155.6	.0	.0	.0	155.6
Red spruce	793.1	48.3	8.4	10.4	860.2
Speckled alder	698.9	44.1	4.2	.0	747.2
Black chokecherry	8.4	.0	.0	.0	8.4
Gray birch	6.3	2.1	.0	.0	8.4
Lambkill	428.6	4.2	.0	.0	432.8
Labrador tea	124.0	.0	.0	.0	124.0
Eastern hophornbeam	14.7	.0	.0	.0	14.7
Red oak	25.2	.0	4.3	.0	29.5
Spiraea	25.1	21.0	.0	.0	46.1
Total infrequently browsed	2,340.8	119.7	16.9	10.4	2,487.8
Witch-hazel	4.2	6.3	.0	.0	10.5
Gooseberries	431.5	.0	.0	.0	431.5
Total questionable	435.7	6.3	.0	.0	442.0
Unclassified species	868.5	98.9	39.9	6.3	1,013.6
Total all species	20,409.0	2,292.2	857.3	143.8	23,702.3
Sampling error (percent)	7	12	17	35	6

Table 70.--Area of timberland by forest type, forest-type group, and stand-size class, Washington County, Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
White pine/hemlock	21.1	10.6	.0	.0	31.7
Hemlock	52.7	10.6	.0	.0	63.3
White/red pine group	73.8	21.2	.0	.0	95.0
Balsam fir	21.9	52.8	43.7	.0	118.4
Red spruce	73.8	84.2	.0	.0	158.0
Red spruce/balsam fir	137.3	158.2	31.9	.0	327.4
White spruce	10.5	10.6	.0	.0	21.1
Black spruce	.0	31.7	11.0	.0	42.7
Northern white-cedar	73.9	42.2	10.5	.0	126.6
Tamarack	.0	10.5	.0	.0	10.5
Spruce/fir group	317.4	390.2	97.1	.0	804.7
Northern red oak	.0	10.6	.0	.0	10.6
Red maple/central hardwoods	.0	.0	11.0	.0	11.0
Oak/hickory group	.0	10.6	11.0	.0	21.6
Black ash/Amer. elm/red maple	.0	21.1	.0	.0	21.1
Willow	.0	.0	11.0	.0	11.0
Elm/ash/red maple group	.0	21.1	11.0	.0	32.1
Sugar maple/beech/yellow birch	84.4	42.4	31.6	.0	158.4
Red maple/northern hardwoods	21.0	85.5	32.6	.0	139.1
Mixed northern hardwoods	10.5	10.5	.0	.0	21.0
Northern hardwoods group	115.9	138.4	64.2	.0	318.5
Aspen	42.2	21.6	64.7	.0	128.5
Paper birch	.0	10.5	10.6	.0	21.1
Gray birch	.0	.0	32.7	.0	32.7
Aspen/birch group	42.2	32.1	108.0	.0	182.3
All forest types	549.3	613.6	291.3	.0	1,454.2

Table 71.--Number of all live nut and fruit producing trees on timberland by species and diameter class, Washington County, Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Beech	4,344	1,968	961	481	464	151	80	38	0	0	8,487	32
Eastern hophornbeam	226	212	0	0	0	0	0	0	0	0	438	58
Northern red oak	230	508	394	162	0	0	0	0	0	0	1,294	86
Total, all species	4,800	2,688	1,355	643	464	151	80	38	0	0	10,219	28
Sampling error (percent)	30	32	41	41	42	60	59	100	-	-	28	

Table 72.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Washington County, Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	0	529,122	666,942	136,492	1,332,556
Saplings	46,227	371,798	0	0	418,025
Total sawtimber	46,227	900,920	666,942	136,492	1,750,581
Poletimber:					
Shrubs	37,500	1,914,698	1,382,027	180,276	3,514,501
Saplings	48,504	458,206	2,298	0	509,008
Total poletimber	86,004	2,372,904	1,384,325	180,276	4,023,509
Sapling/seedling:					
Shrubs	6,895	4,413,796	3,575,856	585,635	8,582,182
Saplings	2,194	233,511	2,298	0	238,003
Total sapling/seedling	9,089	4,647,307	3,578,154	585,635	8,820,185
Nonstocked:					
Shrubs	0	0	0	0	0
Saplings	0	0	0	0	0
Total nonstocked	0	0	0	0	0
Total, all classes	141,320	7,921,131	5,629,421	902,403	14,594,275

Table 73.--Number of standing dead trees on timberland by species, condition class, and diameter class, Washington County, Maine, 1982

Species	Intact top				Broken top					
	Diameter class (inches at breast height)				Diameter class (inches at breast height)				Total all trees	Sampling error
	5.1-10.9	11.0-14.9	15+	Total	5.0-10.9	11.0-14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	10,463	116	38	10,617	18,283	435	38	18,756	29,373	15
Tamarack	0	0	0	0	0	0	37	37	37	100
White Spruce	162	0	0	162	0	0	0	0	162	100
Black Spruce	75	0	0	75	452	0	0	452	527	74
Red Spruce	1,754	93	0	1,847	2,347	344	75	2,766	4,613	20
Red pine	0	0	0	0	0	0	0	0	0	0
White Pine	112	75	65	252	573	302	28	903	1,155	35
Northern white-cedar	2,624	528	0	3,152	1,442	179	0	1,621	4,773	30
Hemlock	226	0	0	226	768	0	0	768	994	
Other softwoods	0	0	0	0	0	0	0	0	0	
Total softwoods	15,416	812	103	16,331	23,865	1,260	178	25,303	41,634	12
Sugar maple	0	38	0	38	245	0	38	283	321	78
Red maple	834	0	0	83	1,820	239	0	2,059	2,893	26
Yellow birch	254	37	0	291	301	159	133	593	884	28
Paper birch	1,157	0	37	1,194	1,706	148	75	1,929	3,123	30
Gray birch	150	0	0	150	681	0	0	681	831	45
Beech	1,019	0	68	1,087	1,892	388	281	2,561	3,648	32
White ash	0	0	0	0	75	0	0	75	75	100
Black ash	370	99	0	469	462	83	0	545	1,014	63
Aspen	774	0	0	774	1,708	75	0	1,783	2,557	36
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	157	0	0	157	157	100
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	0	0	0	0	0	0	0	0
Other hardwoods	75	0	0	75	152	0	0	152	227	57
Total hardwoods	4,633	174	105	4,912	9,199	1,092	527	10,818	15,730	13
Total, all species	20,049	986	208	21,243	33,064	2,352	705	36,121	57,364	9
Sampling error (percent)	15	24	47	14	10	16	29	9	9	

Table 74.--Number of trees with observed cavities on timberland by species and condition class, Washington County, Maine, 1982

Species	Live No cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	Thousand trees									Percent
Balsam fir	38	316	0	0	354	786	977	1,763	2,117	20
Tamarack	0	0	0	0	0	0	0	0	0	0
White spruce	0	0	0	0	0	76	0	76	76	100
Black spruce	0	0	0	0	0	75	0	75	75	100
Red spruce	338	150	0	0	488	76	199	275	763	29
Red pine	0	0	0	0	0	0	0	0	0	0
White pine	75	62	0	0	137	37	157	194	331	39
Northern white-cedar	245	842	0	75	1,162	484	357	841	2,003	23
Hemlock	122	66	0	0	188	0	75	75	263	54
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	818	1,436	0	75	2,329	1,534	1,765	3,299	5,628	13
Sugar maple	116	260	0	0	376	37	38	75	451	53
Red maple	383	943	0	0	1,326	0	339	339	1,665	22
Yellow birch	172	301	0	38	511	37	184	221	732	33
Paper birch	154	98	0	0	252	75	262	337	589	39
Gray birch	0	79	0	0	79	0	0	0	79	100
Beech	75	695	0	0	770	113	1,079	1,192	1,962	40
White ash	0	38	0	0	38	0	0	0	38	100
Black ash	0	112	0	0	112	38	237	275	387	44
Aspen	72	37	0	0	109	117	262	379	488	45
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	0	0	0	0	0	0	0	0	0	0
Other hardwoods	0	0	0	0	0	0	0	0	0	0
Total hardwoods	972	2,563	0	38	3,573	417	2,401	2,818	6,391	17
Total, all species	1,790	3,999	0	113	5,902	1,951	4,166	6,117	12,019	11
Sampling error (percent)	19	18	-	57		22	16		11	

Table 75.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Washington County, Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Northern white-cedar	70.3	109.8	28.5	.0	208.6	28	28
Eastern hemlock	151.8	24.2	4.4	.0	180.4	32	27
Striped maple	129.5	63.8	101.4	.0	294.7	41	7
Red maple	219.9	246.0	210.6	.0	676.5	17	20
Mountain maple	.0	26.3	11.0	.0	37.3	63	0
Hobblebush viburnum	6.6	57.4	.0	.0	64.0	60	s[a]
Total readily browsed	578.1	527.5	355.9	.0	1,461.5	15	
Balsam fir	934.2	1,276.4	505.3	.0	2,715.9	12	15
Juniper	.0	.0	2.3	.0	2.3	100	s
White pine	17.6	19.7	6.7	.0	44.0	36	5
Sugar maple	83.6	72.8	26.3	.0	182.7	41	10
Shadbush	.0	11.0	9.2	.0	20.2	64	s
Yellow birch	208.7	105.3	138.2	.0	452.2	38	4
Paper birch	105.4	149.8	179.9	.0	435.1	22	10
Red-osier dogwood	.0	36.8	.0	.0	36.8	100	s
American hazelnut	.0	11.0	.0	.0	11.0	100	s
Beaked hazelnut	.0	26.5	6.9	.0	33.4	76	s
Beech	162.9	92.6	8.8	.0	264.3	31	34
White ash	11.0	8.8	4.3	.0	24.1	46	0
Black ash	13.2	32.9	.0	.0	46.1	32	29
Huckleberries	.0	11.0	.0	.0	11.0	83	s
Winterberry	.0	.0	36.8	.0	36.8	100	s
Honeysuckle	6.6	28.8	32.0	.0	67.4	45	s
Balsam poplar	2.2	2.3	20.1	.0	24.6	83	0
Bigtooth aspen	22.0	4.4	13.3	.0	39.7	34	22
Quaking aspen	33.0	266.9	137.3	.0	437.2	49	13
Pin cherry	26.3	15.4	89.3	.0	131.0	47	2
Black cherry	2.2	11.4	9.2	.0	22.8	50	10
Chokecherry	.0	.0	11.0	.0	11.0	100	s
Brambles	539.0	926.0	1,855.8	.0	3,320.8	23	s
Willows	15.4	4.4	158.7	.0	178.5	50	0
Red-berried elder	.0	.0	17.5	.0	17.5	100	s
Blueberries	11.0	141.4	1,141.2	.0	1,293.6	39	s
Sweetfern	.0	24.1	13.8	.0	37.9	60	s
Wild raisin	75.0	73.1	323.9	.0	472.0	31	s
Total commonly browsed	2,269.3	3,352.8	4,747.8	.0	10,369.9	11	

Table 75.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	----------	Million stems	----------		----------	Percent	
Tamarack	.0	.0	9.0	.0	9.0	49	75
White spruce	8.8	11.0	.0	.0	19.8	45	56
Black spruce	22.0	79.4	23.0	.0	124.4	47	32
Red spruce	345.1	215.5	96.7	.0	657.3	21	18
Speckled alder	133.8	205.2	127.0	.0	466.0	40	s
Black chokecherry	.0	11.0	.0	.0	11.0	100	s
Gray birch	4.4	17.5	132.2	.0	154.1	33	35
Lambkill	65.7	980.1	1,797.9	.0	2,843.7	41	s
Labrador tea	.0	19.7	.0	.0	19.7	90	s
Eastern hophornbeam	.0	25.1	4.4	.0	29.5	73	15
Red oak	.0	2.2	2.2	.0	4.4	71	50
Spiraea	212.6	149.6	1,255.9	.0	1,618.1	38	s
Total infrequently browsed	792.4	1,716.3	3,448.3	.0	5,957.0	22	
Witch-hazel	.0	4.4	.0	.0	4.4	100	s
Gooseberries	4.4	46.2	9.2	.0	59.8	50	s
Total questionable	4.4	50.6	9.2	.0	64.2	47	
Unclassified species	279.9	771.1	1,966.4	.0	3,017.4	19	
Total all species	3,924.1	6,418.3	10,527.6	.0	20,870.0	10	
Sampling error (percent)	17	17	21	-	10		

[a] Classed as shrub species.

Table 76.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Washington County, Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	2.2	169.1	.0	37.3	.0	.0	208.6
Eastern hemlock	39.7	70.5	.0	.0	70.2	.0	180.4
Striped maple	24.3	55.4	4.4	.0	206.2	4.4	294.7
Red maple	17.6	384.8	11.1	15.6	105.6	141.8	676.5
Mountain maple	.0	26.3	.0	.0	11.0	.0	37.3
Hobblebush viburnum	.0	2.2	.0	.0	61.8	.0	64.0
Total readily browsed	83.8	708.3	15.5	52.9	454.8	146.2	1,461.5
Balsam fir	79.3	2,035.2	.0	22.3	440.6	138.5	2,715.9
Juniper	.0	2.3	.0	.0	.0	.0	2.3
White pine	.0	37.4	.0	.0	2.2	4.4	44.0
Sugar maple	.0	4.4	.0	.0	173.9	4.4	182.7
Shadbush	.0	2.2	8.8	.0	.0	9.2	20.2
Yellow birch	133.8	123.0	.0	6.6	173.4	15.4	452.2
Paper birch	.0	213.3	2.2	2.3	118.9	98.4	435.1
Red-osier dogwood	.0	.0	.0	.0	.0	36.8	36.8
American hazelnut	.0	11.0	.0	.0	.0	.0	11.0
Beaked hazelnut	.0	24.3	2.2	6.9	.0	.0	33.4
Beech	13.2	2.2	.0	2.2	233.5	13.2	264.3
White ash	8.8	4.4	.0	.0	10.9	.0	24.1
Black ash	2.2	30.8	.0	6.5	4.4	2.2	46.1
Huckleberries	.0	2.2	.0	.0	8.8	.0	11.0
Winterberry	.0	.0	.0	.0	36.8	.0	36.8
Honeysuckle	.0	26.4	.0	.0	36.6	4.4	67.4
Balsam poplar	.0	2.2	.0	.0	2.3	20.1	24.6
Bigtooth aspen	4.4	6.6	.0	.0	6.6	22.1	39.7
Quaking aspen	4.4	61.6	2.3	2.3	224.7	141.9	437.2
Pin cherry	.0	13.3	9.2	.0	101.6	6.9	131.0
Black cherry	.0	2.2	.0	6.9	2.3	11.4	22.8
Chokecherry	.0	11.0	.0	.0	.0	.0	11.0
Brambles	81.2	1,483.8	23.0	401.5	1,175.0	156.3	3,320.8
Willows	15.4	.0	75.8	2.3	15.4	69.6	178.5
Red-berried elder	.0	.0	.0	.0	17.5	.0	17.5
Blueberries	2.2	463.0	86.6	.0	46.6	695.2	1,293.6
Sweetfern	.0	19.7	13.8	.0	4.4	.0	37.9
Wild raisin	.0	179.0	.0	.0	83.9	209.1	472.0
Total commonly browsed	344.9	4,761.5	223.9	459.8	2,920.3	1,659.5	10,369.9

Table 76.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group						All groups
	White/ red pine	Spruce/ fir	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Tamarack	.0	4.5	.0	.0	2.3	2.2	9.0
White spruce	.0	11.0	.0	.0	6.6	2.2	19.8
Black spruce	.0	122.2	.0	2.2	.0	.0	124.4
Red spruce	48.4	514.2	.0	2.2	64.0	28.5	657.3
Speckled alder	.0	149.6	.0	143.7	32.0	140.7	466.0
Black chokecherry	.0	.0	.0	11.0	.0	.0	11.0
Gray birch	.0	19.9	18.4	6.9	28.5	80.4	154.1
Lambkill	.0	587.7	158.3	.0	769.0	1,328.7	2,843.7
Labrador tea	.0	19.7	.0	.0	.0	.0	19.7
Eastern hophornbeam	.0	.0	.0	.0	29.5	.0	29.5
Red oak	.0	.0	.0	.0	2.2	2.2	4.4
Spiraea	.0	689.2	23.0	.0	289.6	616.3	1,618.1
Total infrequently browse	48.4	2,118.0	199.7	166.0	1,223.7	2,201.2	5,957.0
Witch-hazel	.0	.0	.0	.0	4.4	.0	4.4
Gooseberries	.0	39.6	.0	.0	15.8	4.4	59.8
Total questionable	.0	39.6	.0	.0	20.2	4.4	64.2
Unclassified species	52.9	1,126.0	356.2	22.1	371.0	1,089.2	3,017.4
Total all species	530.0	8,753.4	795.3	700.8	4,990.0	5,100.5	20,870.0
Sampling error (percent)	52	14	94	63	26	36	10

Table 77.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Washington County, Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	204.2	.0	4.4	.0	208.6
Eastern hemlock	162.8	15.3	2.3	.0	180.4
Striped maple	200.2	94.5	.0	.0	294.7
Red maple	465.0	138.7	59.6	13.2	676.5
Mountain maple	30.7	6.6	.0	.0	37.3
Hobblebush viburnum	59.6	4.4	.0	.0	64.0
Total readily browsed	1,122.5	259.5	66.3	13.2	1,461.5
Balsam fir	2,583.2	90.1	26.5	16.1	2,715.9
Juniper	2.3	.0	.0	.0	2.3
White pine	41.8	2.2	.0	.0	44.0
Sugar maple	162.9	11.0	.0	8.8	182.7
Shadbush	20.2	.0	.0	.0	20.2
Yellow birch	186.8	250.1	15.3	.0	452.2
Paper birch	222.2	149.3	50.4	13.2	435.1
Red-osier dogwood	36.8	.0	.0	.0	36.8
American hazelnut	11.0	.0	.0	.0	11.0
Beaked hazelnut	24.3	9.1	.0	.0	33.4
Beech	211.5	50.6	.0	2.2	264.3
White ash	21.9	2.2	.0	.0	24.1
Black ash	43.9	2.2	.0	.0	46.1
Huckleberries	11.0	.0	.0	.0	11.0
Winterberry	36.8	.0	.0	.0	36.8
Honeysuckle	58.6	2.2	4.4	2.2	67.4
Balsam poplar	22.5	2.1	.0	.0	24.6
Bigtooth aspen	28.7	6.6	4.4	.0	39.7
Quaking aspen	395.4	35.2	6.6	.0	437.2
Pin cherry	60.8	13.2	57.0	.0	131.0
Black cherry	13.7	2.2	6.9	.0	22.8
Chokecherry	.0	4.4	.0	6.6	11.0
Brambles	2,155.9	764.0	217.0	183.9	3,320.8
Willows	137.3	34.5	6.7	.0	178.5
Red-berried elder	17.5	.0	.0	.0	17.5
Blueberries	736.1	85.9	458.5	13.1	1,293.6
Sweetfern	33.5	.0	4.4	.0	37.9
Wild raisin	209.1	249.7	.0	13.2	472.0
Total commonly browsed	7,485.7	1,766.8	858.1	259.3	10,369.9

Table 77.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	9.0	.0	.0	.0	9.0
White spruce	19.8	.0	.0	.0	19.8
Black spruce	124.4	.0	.0	.0	124.4
Red spruce	624.2	11.0	22.1	.0	657.3
Speckled alder	429.6	36.4	.0	.0	466.0
Black chokecherry	11.0	.0	.0	.0	11.0
Gray birch	98.8	33.3	22.0	.0	154.1
Lambkill	2,376.9	447.1	19.7	.0	2,843.7
Labrador tea	19.7	.0	.0	.0	19.7
Eastern hophornbeam	29.5	.0	.0	.0	29.5
Red oak	4.4	.0	.0	.0	4.4
Spiraea	1,371.5	237.9	8.7	.0	1,618.1
Total infrequently browsed	5,118.8	765.7	72.5	.0	5,957.0
Witch-hazel	4.4	.0	.0	.0	4.4
Gooseberries	53.2	.0	.0	6.6	59.8
Total questionable	57.6	.0	.0	6.6	64.2
Unclassified species	2,256.2	680.0	26.4	54.8	3,017.4
Total all species	16,040.8	3,472.0	1,023.3	333.9	20,870.0
Sampling error (percent)	10	17	48	57	10

Table 78.--Area of timberland by forest type, forest-type group, and stand-size class, Western Maine, 1982

(In thousands of acres)

Forest type and forest-type group	Stand-size class				All classes
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked	
White pine	148.2	42.6	.0	.0	190.8
White pine/hemlock	31.8	53.1	.0	.0	84.9
Hemlock	42.5	21.2	.0	.0	63.7
White/red pine group	222.5	116.9	.0	.0	339.4
Balsam fir	94.8	109.3	21.4	.0	225.5
Red spruce	53.0	31.1	.0	.0	84.1
Red spruce/balsam fir	93.5	127.1	51.0	.0	271.6
White spruce	10.6	10.6	.0	.0	21.2
Black spruce	.0	.0	10.7	.0	10.7
Northern white-cedar	.0	10.6	.0	.0	10.6
Spruce/fir group	251.9	288.7	83.1	.0	623.7
White pine/no. red oak/wh. ash	10.6	.0	.0	.0	10.6
Oak/pine group	10.6	.0	.0	.0	10.6
Northern red oak	.0	31.8	.0	.0	31.8
Oak/hickory group	.0	31.8	.0	.0	31.8
Black ash/Amer. elm/red maple	.0	5.4	.0	.0	5.4
Elm/ash/red maple group	.0	5.4	.0	.0	5.4
Sugar maple/beech/yellow birch	263.0	290.2	18.6	.0	571.8
Red maple/northern hardwoods	92.8	145.8	10.8	.0	249.4
Pin cherry/reverting field	.0	10.6	8.6	.0	19.2
Mixed northern hardwoods	61.2	52.1	10.8	.0	124.1
Northern hardwoods group	417.0	498.7	48.8	.0	964.5
Aspen	.0	75.2	.0	.0	75.2
Paper birch	10.5	94.5	29.8	.0	134.8
Gray birch	.0	.0	19.4	.0	19.4
Aspen/birch group	10.5	169.7	49.2	.0	229.4
All forest types	912.5	1,111.2	181.1	.0	2,204.8

Table 79.--Number of all live nut- and fruit-producing trees on timberland by species and diameter class, Western Maine, 1982

Species	Diameter class (inches at breast height)										All classes	Sampling error
	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29+		
	Thousand trees											Percent
Serviceberry	74	0	0	0	0	0	0	0	0	0	74	100
Beech	10,208	5,863	4,323	1,415	599	386	60	0	0	0	22,854	20
Apple	771	75	0	0	0	0	0	0	0	0	846	76
Eastern hophornbeam	1,696	423	0	0	0	0	0	0	0	0	2,119	36
Pin cherry	1,683	0	0	0	0	0	0	0	0	0	1,683	39
Black cherry	855	421	75	0	0	0	0	0	0	0	1,351	42
White oak	761	74	0	0	0	0	21	0	0	0	856	89
Northern red oak	3,838	1,624	1,038	565	299	199	24	37	52	6	7,682	27
Black oak	293	146	0	0	37	0	0	0	0	0	476	93
Mountain ash	816	141	79	38	73	0	0	0	0	0	1,147	40
Total, all species	20,995	8,767	5,515	2,018	1,008	585	105	37	52	6	39,088	14
Sampling error (percent)	15	18	20	22	22	28	51	100	75	100	14	

Table 80.--Number of shrubs and saplings on timberland by stand-size class, type of stem, and mast type, Western Maine, 1982

(In thousands of stems)

Stand-size class and type of stem	Mast type			Unidentified species	Total stems
	Nuts	Other seeds	Berries		
Sawtimber:					
Shrubs	111,253	213,976	1,553,659	274,272	2,153,160
Saplings	14,713	234,109	5,730	0	254,552
Total sawtimber	125,966	448,085	1,559,389	274,272	2,407,712
Poletimber:					
Shrubs	371,176	403,673	3,058,036	160,707	3,993,592
Saplings	79,050	669,535	61,569	0	810,154
Total poletimber	450,226	1,073,208	3,119,605	160,707	4,803,746
Sapling/seedling:					
Shrubs	31,576	147,729	1,731,462	33,880	1,944,647
Saplings	10,848	91,076	23,088	0	125,012
Total sapling/seedling	42,424	238,805	1,754,550	33,880	2,069,659
Nonstocked:					
Shrubs	0	0	0	0	0
Saplings	0	0	0	0	0
Total nonstocked	0	0	0	0	0
Total, all classes	618,616	1,760,098	6,433,544	468,859	9,281,117

Table 81.--Number of standing dead trees on timberland by species, condition class, and diameter class, Western Maine, 1982

Species	Intact top				Broken top				Total all trees	Sampling error
	Diameter class (inches at breast height)				Diameter class (inches at breast height)					
	5.0-10.9	11.0-14.9	15+	Total	5.0-10.9	11.0-14.9	15+	Total		
	Thousand trees									Percent
Balsam fir	7,716	451	61	8,228	13,911	1,176	199	15,286	23,514	13
Tamarack	0	0	0	0	0	0	0	0	0	0
White spruce	347	36	0	383	72	0	0	72	455	57
Black spruce	255	0	0	255	0	0	0	0	255	100
Red spruce	2,660	191	13	2,864	2,316	313	131	2,760	5,624	21
Red pine	0	0	0	0	74	0	0	74	74	100
White pine	631	36	0	667	864	231	97	1,192	1,859	39
Northern white-cedar	330	0	13	343	837	36	0	873	1,216	47
Hemlock	221	74	37	332	38	0	0	38	370	90
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	12,160	788	124	13,072	18,112	1,756	427	20,295	33,367	11
Sugar maple	74	37	27	138	231	152	0	383	521	39
Red maple	622	0	0	622	1,833	126	148	2,107	2,729	25
Yellow birch	695	134	72	901	918	1,057	1,029	3,004	3,905	14
Paper birch	1,146	0	0	1,146	2,730	430	185	3,345	4,491	21
Gray birch	101	0	0	101	1,353	0	0	1,353	1,454	41
Beech	74	41	0	115	213	145	107	465	580	31
White ash	0	0	0	0	143	36	0	179	179	59
Black ash	0	0	0	0	0	0	0	0	0	0
Aspen	820	69	0	889	605	56	0	661	1,550	35
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	0	0	0	0	0	0	0	0	0	0
Basswood	0	0	0	0	0	0	0	0	0	0
Elm	211	0	0	211	434	0	0	434	645	58
Other hardwoods	1,578	0	0	1,578	2,934	80	0	3,014	4,592	22
Total hardwoods	5,321	281	99	5,701	11,394	2,082	1,469	14,945	20,646	9
Total, all species	17,481	1,069	223	18,773	29,506	3,838	1,896	35,240	54,013	8
Sampling error (percent)	12	26	37	11	10	13	15	9	8	

Table 82.--Number of trees with observed cavities on timberland by species and condition class, Western Maine, 1982

Species	Live, no cull	Live cull			Total live	Dead		Total dead	Total all trees	Sampling error
		Tree condition class				Tree condition class				
		Intact live top	Broken top	Dead top		Intact top	Broken top			
	------------------------------	------------------------------	------------------------------	------------------------------	Thousand trees	------------------------------	------------------------------	------------------------------	------------------------------	Percent
Balsam fir	796	732	0	0	1,528	487	2,100	2,587	4,115	17
Tamarack	37	0	0	0	37	0	0	0	37	100
White spruce	0	0	0	0	0	0	0	0	0	0
Black spruce	37	0	0	0	37	0	0	0	37	100
Red spruce	296	0	0	0	296	36	117	153	449	32
Red pine	0	37	0	0	37	0	0	0	37	100
White pine	255	72	0	0	327	73	313	386	713	34
Northern white-cedar	23	725	0	0	748	72	170	242	990	40
Hemlock	177	123	0	0	300	0	0	0	300	54
Other softwoods	0	0	0	0	0	0	0	0	0	0
Total softwoods	1,621	1,689	0	0	3,310	668	2,700	3,368	6,678	13
Sugar maple	222	666	38	0	926	74	223	297	1,223	27
Red maple	839	2,757	0	72	3,668	74	439	513	4,181	21
Yellow birch	708	1,374	0	0	2,082	59	1,574	1,633	3,715	17
Paper birch	329	445	67	0	841	0	718	718	1,559	29
Gray birch	83	0	0	74	157	0	252	252	409	82
Beech	1,021	2,206	0	0	3,227	41	245	286	3,513	37
White ash	87	71	0	0	158	0	72	72	230	71
Black ash	75	30	0	0	105	0	0	0	105	77
Aspen	109	380	0	0	489	33	0	33	522	53
White oaks	0	0	0	0	0	0	0	0	0	0
Red oaks	183	72	37	0	292	0	0	0	292	43
Basswood	19	0	0	0	19	0	0	0	19	100
Elm	0	0	0	0	0	0	0	0	0	0
Other hardwoods	0	556	0	0	556	72	466	538	1,094	36
Total hardwoods	3,675	8,557	142	146	12,520	353	3,989	4,342	16,862	12
Total, all species	5,296	10,246	142	146	15,830	1,021	6,689	7,710	23,540	10
Sampling error (percent)	17	13	50	71		23	13		10	

Table 83.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and stand-size class, Western Maine, 1982

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Northern white-cedar	4.2	39.0	.0	.0	43.2	52	10
Eastern hemlock	15.0	103.9	.0	.0	118.9	29	9
Striped maple	525.2	1,091.9	45.4	.0	1,662.5	15	3
Red maple	209.7	921.1	131.0	.0	1,261.8	12	13
Mountain maple	250.2	477.6	74.3	.0	802.1	24	3
Apple	.0	6.6	.0	.0	6.6	100	67
Staghorn sumac	.0	14.7	.0	.0	14.7	71	s[a]
Mountain ash	33.4	38.3	36.8	.0	108.5	41	s
Hobblebush viburnum	872.2	977.0	13.8	.0	1,863.0	20	s
Total readily browsed	1,909.9	3,670.1	301.3	.0	5,881.3	9	
Balsam fir	605.9	1,630.0	244.5	.0	2,480.4	11	13
White pine	21.5	38.1	10.9	.0	70.5	27	27
Sugar maple	477.5	742.6	57.4	.0	1,277.5	18	8
Shadbush	.0	65.7	.0	.0	65.7	41	s
Yellow birch	85.0	414.7	18.1	.0	517.8	26	7
Paper birch	134.2	489.8	140.4	.0	764.4	15	11
Beaked hazelnut	111.2	371.2	31.6	.0	514.0	34	s
Beech	180.0	386.3	33.8	.0	600.1	21	11
White ash	78.4	208.2	17.5	.0	304.1	21	6
Black ash	2.1	20.9	4.4	.0	27.4	52	23
Winterberry	.0	14.7	.0	.0	14.7	100	s
Honeysuckle	12.8	62.4	.0	.0	75.2	34	s
Mountain holly	6.6	6.4	.0	.0	13.0	71	s
Bigtooth aspen	23.1	15.0	47.3	.0	85.4	58	0
Quaking aspen	4.3	89.6	13.6	.0	107.5	26	23
Pin cherry	29.0	129.6	157.0	.0	315.6	31	13
Black cherry	.0	53.1	6.6	.0	59.7	33	11
Chokecherry	.0	153.3	1.7	.0	155.0	85	s
White oak	.0	.0	62.0	.0	62.0	71	0
Brambles	180.1	1,218.6	1,563.9	.0	2,962.6	23	s
Willows	2.1	2.1	1.7	.0	5.9	58	29
Common elderberry	2.2	23.4	21.5	.0	47.1	44	s
Red-berried elder	13.0	29.6	.0	.0	42.6	42	s
American elm	.0	2.2	.0	.0	2.2	100	0

Table 83.--Continued

Species and browse preference class	Stand-size class				All classes	Sampling error	Percent saplings
	Sawtimber	Poletimber	Sapling and seedling	Nonstocked			
	Million stems					Percent	
Blueberries	176.5	231.8	27.2	.0	435.5	32	s
Sweetfern	1.7	19.0	.0	.0	20.7	73	s
Maple-leaf viburnum	51.1	6.4	.0	.0	57.5	89	s
Wild raisin	78.0	128.9	2.2	.0	209.1	46	s
Total commonly browsed	2,276.3	6,553.6	2,463.3	.0	11,293.2	8	
Tamarack	.0	4.2	.0	.0	4.2	100	100
White spruce	2.1	26.1	.0	.0	28.2	79	8
Black spruce	.0	6.3	107.5	.0	113.8	95	24
Red spruce	75.3	345.4	10.7	.0	431.4	29	15
Speckled alder	81.9	105.0	38.9	.0	225.8	33	s
Gray birch	2.2	25.6	38.5	.0	66.3	41	20
Lambkill	17.1	21.3	92.5	.0	130.9	72	s
Labrador tea	.0	4.5	.0	.0	4.5	100	s
Eastern hophornbeam	2.1	48.4	26.3	.0	76.8	44	33
Red oak	17.0	156.1	6.5	.0	179.6	56	7
Spiraea	19.6	8.6	1.7	.0	29.9	51	s
Total infrequently browsed	217.3	751.5	322.6	.0	1,291.4	21	
Witch-hazel	23.4	88.4	.0	.0	111.8	44	s
Gooseberries	79.2	280.9	102.9	.0	463.0	31	s
Total questionable	102.6	369.3	102.9	.0	574.8	27	
Unclassified species	434.9	427.7	50.7	.0	913.3	30	
Total all species	4,941.0	11,772.2	3,240.8	.0	19,954.0	6	
Sampling error (percent)	15	8	27		6		

[a] Classed as shrub species.

Table 84.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and forest-type group, Western Maine, 1982

(In millions of stems)

Species and browse preference class	Forest-type group							All groups
	White/ red pine	Spruce/ fir	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Northern white-cedar	17.2	4.2	.0	.0	.0	4.2	17.6	43.2
Eastern hemlock	70.0	.0	.0	4.3	.0	21.5	23.1	118.9
Striped maple	84.5	161.1	25.1	10.7	.0	1,201.4	179.7	1,662.5
Red maple	170.3	173.2	8.4	2.1	.0	708.3	199.5	1,261.8
Mountain maple	2.2	333.1	.0	.0	.0	349.2	117.6	802.1
Apple	.0	.0	.0	.0	.0	6.6	.0	6.6
Staghorn sumac	.0	.0	.0	6.3	.0	8.4	.0	14.7
Mountain ash	.0	58.2	.0	.0	.0	31.3	19.0	108.5
Hobblebush viburnum	39.0	373.8	.0	.0	.0	1,187.3	262.9	1,863.0
Total readily browsed	383.2	1,103.6	33.5	23.4	.0	3,518.2	819.4	5,881.3
Balsam fir	339.2	1,188.3	.0	37.7	.0	782.7	132.5	2,480.4
White pine	25.8	4.2	2.1	6.3	.0	23.7	8.4	70.5
Sugar maple	21.5	70.8	.0	16.7	.0	1,106.3	62.2	1,277.5
Shadbush	19.4	.0	.0	6.3	.0	33.6	6.4	65.7
Yellow birch	21.3	57.6	2.1	.0	.0	416.9	19.9	517.8
Paper birch	77.3	171.8	4.2	2.1	.0	390.1	118.9	764.4
Beaked hazelnut	14.8	75.4	.0	.0	.0	340.6	83.2	514.0
Beech	49.3	8.7	12.6	27.9	.0	431.2	70.4	600.1
White ash	61.5	8.6	.0	.0	.0	165.4	68.6	304.1
Black ash	.0	23.2	.0	.0	.0	4.2	.0	27.4
Winterberry	.0	14.7	.0	.0	.0	.0	.0	14.7
Honeysuckle	2.2	45.4	.0	.0	.0	12.7	14.9	75.2
Mountain holly	13.0	.0	.0	.0	.0	.0	.0	13.0
Bigtooth aspen	.0	25.2	.0	.0	.0	54.6	5.6	85.4
Quaking aspen	15.1	15.1	.0	.0	.0	41.8	35.5	107.5
Pin cherry	21.6	97.1	.0	.0	.0	99.5	97.4	315.6
Black cherry	12.8	6.5	.0	.0	.0	36.0	4.4	59.7
Chokecherry	.0	.0	.0	.0	.0	151.1	3.9	155.0
White oak	.0	.0	.0	.0	.0	28.5	33.5	62.0
Brambles	281.5	926.7	.0	.0	1.2	854.4	898.8	2,962.6
Willows	.0	.0	.0	.0	.0	4.2	1.7	5.9
Common elderberry	.0	14.8	.0	.0	.0	14.3	18.0	47.1
Red-berried elder	.0	12.8	.0	.0	.0	29.8	.0	42.6
American elm	.0	.0	.0	.0	.0	.0	2.2	2.2

Table 84.--Continued

(In millions of stems)

Species and browse preference class	Forest-type group							All groups
	White/ red pine	Spruce/ fir	Oak/ pine	Oak/ hickory	Elm/ash/ red maple	Northern hardwoods	Aspen/ birch	
Blueberries	148.1	127.1	10.4	12.9	.0	75.3	61.7	435.5
Sweetfern	.0	16.9	.0	2.1	.0	1.7	.0	20.7
Maple-leaf viburnum	2.1	2.1	.0	.0	.0	53.3	.0	57.5
Wild raisin	21.7	37.3	.0	.0	1.1	146.9	2.1	209.1
Total commonly browsed	1,148.2	2,950.3	31.4	112.0	2.3	5,298.8	1,750.2	11,293.2
Tamarack	.0	.0	.0	4.2	.0	.0	.0	4.2
White spruce	.0	21.9	.0	.0	.0	6.3	.0	28.2
Black spruce	.0	113.8	.0	.0	.0	.0	.0	113.8
Red spruce	.0	268.8	.0	.0	.0	123.7	38.9	431.4
Speckled alder	27.5	94.4	.0	.0	.0	91.3	12.6	225.8
Gray birch	10.7	13.1	.0	.0	.0	12.9	29.6	66.3
Lambkill	2.1	122.2	.0	.0	.0	2.2	4.4	130.9
Labrador tea	.0	4.5	.0	.0	.0	.0	.0	4.5
Eastern hophornbeam	.0	.0	.0	12.6	.0	47.4	16.8	76.8
Red oak	23.6	2.1	.0	4.2	.0	143.4	6.3	179.6
Spiraea	.0	.0	.0	.0	.0	28.1	1.8	29.9
Total infrequently browse	63.9	640.8	.0	21.0	.0	455.3	110.4	1,291.4
Witch-hazel	44.5	.0	.0	.0	.0	61.0	6.3	111.8
Gooseberries	72.9	149.5	.0	.0	.0	225.5	15.1	463.0
Total questionable	117.4	149.5	.0	.0	.0	286.5	21.4	574.8
Unclassified species	107.3	478.4	.0	.0	23.9	271.9	31.8	913.3
Total all species	1,820.0	5,322.6	64.9	156.4	26.2	9,830.7	2,733.2	19,954.0
Sampling error (percent)	23	15	100	61	100	10	29	6

Table 85.--Number of shrubs, seedlings, and saplings on timberland by species, browse preference class, and browse utilization class, Western Maine, 1982

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Northern white-cedar	30.2	6.6	6.4	.0	43.2
Eastern hemlock	118.9	.0	.0	.0	118.9
Striped maple	979.9	478.5	178.8	25.3	1,662.5
Red maple	817.2	340.4	91.3	12.9	1,261.8
Mountain maple	441.6	264.4	91.9	4.2	802.1
Apple	6.6	.0	.0	.0	6.6
Staghorn sumac	8.4	6.3	.0	.0	14.7
Mountain ash	87.6	14.4	6.5	.0	108.5
Hobblebush viburnum	1,262.0	308.6	199.9	92.5	1,863.0
Total readily browsed	3,752.4	1,419.2	574.8	134.9	5,881.3
Balsam fir	2,369.5	102.2	.0	8.7	2,480.4
White pine	62.1	.0	.0	8.4	70.5
Sugar maple	805.3	229.1	153.0	90.1	1,277.5
Shadbush	46.8	12.6	4.2	2.1	65.7
Yellow birch	218.1	188.7	74.6	36.4	517.8
Paper birch	562.3	159.6	34.0	8.5	764.4
Beaked hazelnut	495.0	14.7	.0	4.3	514.0
Beech	490.6	85.8	21.6	2.1	600.1
White ash	232.4	46.4	8.4	16.9	304.1
Black ash	23.0	.0	4.4	.0	27.4
Winterberry	14.7	.0	.0	.0	14.7
Honeysuckle	58.2	6.5	.0	10.5	75.2
Mountain holly	13.0	.0	.0	.0	13.0
Bigtooth aspen	72.5	2.2	8.6	2.1	85.4
Quaking aspen	84.0	.0	14.7	8.8	107.5
Pin cherry	274.4	20.2	21.0	.0	315.6
Black cherry	42.5	6.3	4.4	6.5	59.7
Chokecherry	142.5	12.5	.0	.0	155.0
White oak	39.0	23.0	.0	.0	62.0
Brambles	2,599.6	363.0	.0	.0	2,962.6
Willows	3.8	2.1	.0	.0	5.9
Common elderberry	44.9	2.2	.0	.0	47.1
Red-berried elder	32.2	10.4	.0	.0	42.6
American elm	2.2	.0	.0	.0	2.2
Blueberries	411.4	.0	.0	24.1	435.5
Sweetfern	18.6	2.1	.0	.0	20.7
Maple-leaf viburnum	55.3	2.2	.0	.0	57.5
Wild raisin	173.2	31.5	.0	4.4	209.1
Total commonly browsed	9,387.1	1,323.3	348.9	233.9	11,293.2

Table 85.--Continued

(In millions of stems)

Species and browse preference class	Browse utilization class				All classes
	None	Light	Moderate	Heavy	
Tamarack	4.2	.0	.0	.0	4.2
White spruce	28.2	.0	.0	.0	28.2
Black spruce	113.8	.0	.0	.0	113.8
Red spruce	427.1	4.3	.0	.0	431.4
Speckled alder	125.3	80.3	16.0	4.2	225.8
Gray birch	59.9	4.2	2.2	.0	66.3
Lambkill	130.9	.0	.0	.0	130.9
Labrador tea	4.5	.0	.0	.0	4.5
Eastern hophornbeam	53.8	23.0	.0	.0	76.8
Red oak	64.2	6.4	76.4	32.6	179.6
Spiraea	27.8	2.1	.0	.0	29.9
Total infrequently browsed	1,039.7	120.3	94.6	36.8	1,291.4
Witch-hazel	101.2	10.6	.0	.0	111.8
Gooseberries	437.9	20.9	2.1	2.1	463.0
Total questionable	539.1	31.5	2.1	2.1	574.8
Unclassified species	750.6	118.2	42.4	2.1	913.3
Total all species	15,468.9	3,012.5	1,062.8	409.8	19,954.0
Sampling error (percent)	6	14	20	32	6

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Appendix

Definition of Terms

Agricultural/herbaceous land. Land with herbaceous plant cover, both grasses and/or forbs, including cropland, pasture land, and natural grass lands.

Aquatic edge. An edge condition created when a terrestrial land use abuts a lake, pond, river, stream, or major wetland.

Bog/Marsh/Swamp. Land that has less than 16.7 percent stocking with live trees; and which characteristically supports low, generally herbaceous or shrubby vegetation, and which is intermittently covered with water during all seasons; includes tidal areas that are covered with salty or brackish water during high tides.

Browse. Forage resource; defined here as current twig growth of woody-stemmed plants occurring between 1 and 8 feet in height.

Browse preference class. Classification of each woody-stemmed species based on observed selection by white-tailed deer during winters in Maine (provided by Maine Department of Inland Fisheries and Wildlife).

Browse utilization class. Four levels of browse use: none, light (1-10 percent available), moderate (11-40 percent), and heavy (greater than 40 percent).

Cavity. A hollowed out space in a tree, either natural or faunal caused; frequently used as a nesting site or temporary refuge by many species of wildlife.

Commercial species. Tree species presently or prospectively suitable for industrial wood products. Excludes species of typically small size, poor form, or inferior quality, such as hawthorn and sumac.

Condition class. Classification of trees based on live or dead and condition of top of the tree (that is, intact, broken, dead).

County and municipal lands. Lands owned by counties and local public agencies or municipalities or leased to them for 50 years or more.

Cropland. Land that currently supports agricultural crops including silage and feed grains, bare farm fields resulting from cultivation of harvest, and maintained orchards.

Cull tree. A live tree predominantly rotten or of rough form (see Growing-stock trees).

Cultural land. Land with human development as the major land cover;

includes industrial, commercial, and residential land uses.

Diameter at breast height (d.b.h.). The diameter outside bark of a standing tree measured at 4-1/2 feet above the ground.

Farmer-owned lands. Lands owned by farm operators, whether part of the farmstead or not. Excludes land leased by farm operators from non-farm owners.

Federal lands. Lands (other than National Forests) administered by Federal agencies.

Forest industry lands. Lands owned by companies or individuals operating primary wood-using plants.

Forest land. Land at least 10 percent stocked with trees of any size or that formerly had such tree cover and is not currently developed for nonforest use. The minimum area for classification of forest land is 1 acre.

Forest type. A classification of forest land by species that form a plurality of live tree basal area stocking.

Forest-type group. A combination of forest types that share closely associated species or site requirements. The many forest types in Maine were combined into the following major forest-type groups (the descriptions apply to forests in Maine):

a. White/red pine--forests in which white pine, hemlock, or red pine, singly or in combination, make up a plurality of the stocking; common associates include red maple, red spruce, balsam fir, northern red oak, paper birch, and aspen.

b. Spruce/fir--forests in which red spruce, northern white-cedar, balsam fir, white spruce, black spruce, or tamarack, singly or in combination, make up a plurality of the stocking; common associates include paper birch, red maple, aspen, white pine, hemlock, yellow birch, and sugar maple.

c. Loblolly/shortleaf pine--forests in which pitch pine makes up a plurality of the stocking; gray birch is an associate of this rare type group.

d. Oak/pine--forests in which northern red oak or white ash, singly or in combination, make up a plurality of the stocking but where white pine contributes 25 to 50 percent of the stocking; beech and red spruce are associates.

e. Oak/hickory--forests in which upland oaks, red maple (when associated with central hardwoods), or hawthorn, singly or in combination, make up a plurality of the stocking and in which white pine makes up less than 75 percent of the stocking; common associates include white pine, paper birch, red spruce, beech, hemlock, and balsam fir.

f. Elm/ash/red maple--forests in which black ash, elm, red maple (when growing on wet sites), willow, or green ash, singly or in combination, make up a plurality of the stocking; common associates include balsam fir, northern white-cedar, aspen, and white ash.

g. Northern hardwoods--forests in which sugar maple, beech, yellow birch, red maple (when associated with northern hardwoods), pin cherry, or black cherry, singly or in combination, make up a plurality of the stocking; common associates include balsam fir, red spruce, paper birch, hemlock, white ash, aspen, and white pine.

h. Aspen-birch--forests in which aspen, paper birch, or gray birch, singly or in combination, make up a plurality of the stocking; common associates include balsam fir, red maple, red spruce, white spruce, and white pine.

Growing-stock trees. Live trees of commercial species classified as sawtimber, poletimber, saplings, and seedlings; that is, all live trees of commercial species except rough and rotten trees.

Hardwoods. Dicotyledonous trees, usually broad-leaved and deciduous.

Harvested cropland. All land from which crops were harvested or hay was cut and all land in orchards, citrus groves, vineyards, and nursery and greenhouse products.

Idle farmland. Former cropland or pasture that has not been tended within the last 2 years and that has less than 16.7 percent stocking with live trees, (established seedlings or larger trees) regardless of species.

Improved/maintained pasture. Land that is currently used and maintained for grazing (not including grazed cropland).

Industrial and commercial land. Supply yards, parking lots, factories, and so on.

Land area. (a) Bureau of Census: The area of dry land and land temporarily or partly covered by water, such as marshes, swamps, and river flood plains; streams, sloughs, estuaries, and canals less than 1/8 statute mile wide; and lakes, reservoirs, and ponds less than 40 acres in area. (b) Forest Inventory and Analysis: same as (a) except that the minimum width of streams, and so on, is 120 feet, and the minimum size of lakes, and so on, is 1 acre.

Land use edge. A condition created by the juxtaposition of two differing land uses.

Mast. Seed produced by woody stemmed, perennial plants, generally refers to soft (fruit) and hard (nuts) mast.

Mining and waste land. Surface mining, gravel pits, dumps.

Miscellaneous private lands. Privately owned lands other than forest-industry and farmer-owned lands.

National Forest lands. Federal lands legally designated as National Forests or purchase units and other lands administered as part of the National Forest System by the USDA Forest Service.

Noncommercial forest land. Productive-reserved, urban, and unproductive forest land.

Noncensus water. Streams/rivers between 120 feet and 1/8 mile in width, and bodies of water between 1 and 40 acres in size. The Bureau of the Census classifies such water as land.

Noncommercial species. Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land. Land that has never supported forests, or land formerly forested but now in nonforest use such as cropland, pasture, residential areas, and highways.

Nonstocked area. A stand-size class of forest land that is stocked with less than 10 percent of minimum full stocking with all live trees.

Other cropland. Includes cropland used for cover crops; legumes, soil-improvement grasses, but not harvested and not pastured; cropland on which all crops failed; cropland in summer fallow and idle cropland.

Other farmland. All nonforest land on a farm excluding cropland, pasture, and idle farmland; includes farm lanes, stock pens, and farmsteads.

Pasture land. Includes any pasture land other than cropland and woodland pasture. Can include managed pasture lands which had applied lime fertilizer, seed, were improved by irrigation, drainage, or control of weeds and brush, or other normal treatment.

Pastured cropland. Includes rotation pasture and grazing land that would have been used for crops without additional improvement.

Poletimber stands. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, and in which the stocking of poletimber exceeds that of sawtimber.

Poletimber trees. Live trees of commercial species meeting regional specifications of soundness and form and at least 5.0 inches in d.b.h., but smaller than sawtimber trees.

Productive-reserved forest land. Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute, administrative designation, or exclusive use for Christmas tree production.

Recreation site. Parks, campgrounds, playing fields, tracks, and so on.

Revised stand-size class. (Provided by Maine Department of Inland Fisheries and Wildlife and used in Table 5 only).

Seedling stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in saplings or seedlings or both, and with more stocking in seedlings than in saplings.

Sapling stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in saplings or seedlings or both, and with more stocking in saplings than in seedlings.

Small Poletimber stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, in which the stocking of poletimber exceeds that of sawtimber, and in which the stocking of trees 7.6 to 11.0 inches d.b.h. is greater or equal to that of trees 5.0 to 7.5 inches d.b.h.

Sawtimber stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, in which the stocking of sawtimber is at least equal to that of poletimber, and in which the stocking of trees 11.0 to 15.5 inches d.b.h. exceeds that of trees greater than 15.5 inches d.b.h.

Large Growth stand. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, in which the stocking of sawtimber is at least equal to that of poletimber, and in which the stocking of trees greater than 15.5 inches d.b.h. is at least equal to that of trees 11.0 to 15.5 inches d.b.h.

Nonstocked area. A stand-size class of forest land that is stocked with less than 10 percent of minimum full stocking with all live trees.

Poletimber trees. Live trees of commercial species at least 5.0 inches in d.b.h. but less than 11.0 inches in d.b.h.

Sawtimber trees. Live trees of commercial species at least 11.0 inches d.b.h.

Rights-of-way. Highways, pipelines, powerlines, canals.

Rotten trees. Live trees of commercial species that do not contain at least one 12-foot sawlog or two noncontiguous sawlogs, each 8 feet or longer, now or prospectively, and do not meet regional specifications for freedom from defect primarily because of rot; that is, when more than 50 percent of the cull volume in a tree is rotten.

Rough trees. (a) The same as rotten trees, except that rough trees do not meet regional specifications for freedom from defect primarily because of roughness or poor form, and (b) all live trees of noncommercial species.

Saplings. Live trees 1.0 through 4.9 inches d.b.h.

Sapling-seedling stands. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in saplings or seedlings or both.

Sawtimber stands. A stand-size class of forest land that is stocked with at least 10 percent of minimum full stocking with all live trees with half or more of such stocking in poletimber or sawtimber trees or both, and in which the stocking of sawtimber is at least equal to that of poletimber.

Sawtimber trees. Live trees of commercial species at least 9.0 inches d.b.h. for softwoods or 11.0 inches for hardwoods containing at least one 12-foot sawlog or two noncontiguous 8-foot sawlogs, and meeting regional specifications for freedom from defect.

Seedlings. Live trees less than 1.0 inch d.b.h. that are expected to survive.

Shrub. Woody stemmed perennial plant, generally with no well-defined main stem and less than 12 feet in height at maturity.

Shrub land. Land with shrub and/or tree cover and an obvious herbaceous understory; average canopy height of less than 25 feet and crown closure of less than 70 percent.

Single-family/custom house. House sheltering one family and immediately adjacent managed land.

Softwoods. Coniferous trees, usually evergreen and having needles or scalelike leaves.

Stand. A group of forest trees growing on forest land.

Stand area class. The area, contiguous to the plot, that is of the same overall stand size and major type group (hardwood, softwood, or uniform mixture of both).

Standing dead tree (snag). Woody stem greater than 5.0 inches in diameter and 10 feet in height.

Stand-size class. A classification of forest land based on the size class (that is, seedlings, saplings, poletimber, or sawtimber) of all live trees in the area.

State lands. Lands owned by the State or leased to the State for 50 years or more.

Stocking. The degree of occupancy of land by trees, measured by basal area and/or number of trees in a stand compared to the basal area and/or number of trees required to fully use the growth potential of the land (or the stocking standard). In the Eastern United States this standard is 75 square feet of basal area per acre for trees 5.0 inches d.b.h. and larger, or its equivalent in numbers of trees per acre for seedlings and saplings.

Two categories of stocking are used:

All live trees - these are used to classify forest land, forest types, and stand-size classes.

Growing-stock trees - these are used to classify stand-size classes.

Strip mine. Area devoid of vegetation due to current or recent general excavation.

Timberland. Forest land producing or capable of producing crops of industrial wood (more than 20 cubic feet per acre per year) and not withdrawn from timber utilization (previously termed commercial forest land).

Tract/multiple family. Multiple individual residential units or attached units (e.g. apartment buildings, condominiums) and immediately adjacent managed land.

Transportation right-of-way. Land associated with highways and railroads.

Trees. Woody plants that have well-developed stems and are usually more than 12 feet in height at maturity.

Unproductive forest land. Forest land that is incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions.

Urban forest land. Noncommercial forest land within urban areas that is completely surrounded by urban development (not parks), whether commercial, industrial, or residential.

Utility right-of-way. Land associated with pipeline and electric transmission lines; identified only if vegetative cover differs from adjacent land use.

Windbreak/hedgerow. Linear areas, less than 120 feet in width; with predominantly tree and/or shrub vegetation.

Tree Species of Maine (as encountered on field plots) (Powell and Dickson 1984).

Scientific Name[a]	Common Name(s)	Occurrence[b]
	SOFTWOODS	
Abies balsamea (L.) Mill.	balsam fir	vc
Juniperus virginiana L.	eastern redcedar	vr
Larix laricina (Du Roi) K. Koch	tamarack, eastern larch, hackmatack	c
Picea abies (L.) Karst.	Norway spruce	vr
P. glauca (Moench) Voss	white spruce	c
P. mariana (Mill.) B.S.P.	black spruce	c
P. rubens Sarg.	red spruce	vc
Pinus resinosa Ait.	red or Norway pine	r
P. rigida Mill.	pitch pine	vr
P. strobus L.	eastern white pine	c
Thuja occidentalis L.	northern white-cedar	vc
Tsuga canadensis (L.) Carr.	eastern hemlock	c
	HARDWOODS	
Acer pensylvanicum L.[c]	striped maple, moosewood	c
A. rubrum L.	red, soft, or swamp maple	vc
A. saccharinum L.	silver or soft maple	vr
A. saccharum Marsh.	sugar, rock, or hard maple	c
A. spicatum Lam.[c]	mountain maple	vr
Ailanthus altissima (Mill.) Swingle[c]	Ailanthus, tree-of-heaven	vr
Betula alleghaniensis Britton	yellow birch	c
B. lenta L.	sweet, black, or cherry birch	vr
B. papyrifera Marsh.	paper, white, or canoe birch	vc
B. populifolia Marsh.	gray birch	c
Carpinus caroliniana Walt.[c]	American hornbeam, blue-beech	vr
Carya spp. Nutt.	hickory	vr
Fagus grandifolia Ehrh.	American beech	c
Fraxinus americana L.	white ash	c
F. nigra Marsh.	black or brown ash	c
F. pennsylvanica Marsh.	green or red ash	r
Juglans cinera L.	butternut	vr
Malus spp. Mill.[c]	apple	r
Nyssa sylvatica Marsh.	blackgum or black tupelo	vr
Ostrya virginiana (Mill.) K. Koch[c]	eastern hophornbeam or ironwood	r
Populus balsamifera L.	balsam poplar	r
P. grandidentata Michx.	bigtooth aspen, poplar, or popple	c
P. tremuloides Michx.	quaking or trembling aspen, popple	c
Prunus pensylvanica L.f.[c]	pin or fire cherry	r
P. serotina Ehrh.	black cherry	r
Quercus alba L.	white oak	r
Q. coccinea Muenchh.	scarlet oak	vr
Q. rubra L.	northern red oak	c
Q. velutina Lam.	black or yellow oak	r
Robinia pseudoacacia L.	black locust	vr
Salix spp. L.[c]	willow	vr
S. nigra Marsh.	black willow	vr
Tilia americana L.	American basswood	r
Ulmus americana L.	American elm	r
U. rubra Muhl.	slippery or red elm	vr

[a] Names according to: Little, Elbert L., Jr. Checklist of United States trees (native and naturalized). Agric. Handb. 541. Washington, DC: U.S. Department of Agriculture, Forest Service; 1979. 375 p.

[b] Occurrence is based on the proportion of the species among all live trees 5.0 inches d.b.h. or larger encountered on forest survey field plots: vr = very rare (<0.05%), r = rare (0.05 to 0.49%), c = common (0.5 to 4.9%), and vc = very common (≥5.0%).

[c] Noncommercial species.

Shrub, sapling, and seedling species of Maine as encountered on field plots, but not listed in the tree species list.

Scientific Name[a]	Common Name
Juniperus spp. L.	juniper
Pinus banksiana Lamb	jack pine
Taxus canadensis Marsh.	Canada yew
Alnus spp. Mill.	alder
A. rugosa (Du Roi Spreng.	speckled alder
Amelanchier spp. Medic.	serviceberry
Andromeda glaucophylla Link.	bog rosemary
Arctostaphylos uva-ursi (L.) Spreng.	evergreen bearberry
Aronia melanocarpa (Michx.) Ell.	black chokeberry
Carya cordiformis (Wangenh.) K. Koch	bitternut hickory
C. ovata (Mill.) K. Koch	shagbark hickory
Ceanothus americanus L.	New Jersey tea
Celastrus scandens L.	American bittersweet
Clematis verticillaris DC	purple clematis
Comptonia peregrina (L.) J. Coult.	sweetfern
Cornus alternifolia L. f.	alternate-leaf dogwood
C. amonum Mill.	silky dogwood
C. canadensis L.	bunchberry
C. racemosa Lam.	red-panicled dogwood
C. stolonifera Michx.	red-osier dogwood
Corylus americana Marsh.	American hazelnut
C. cornuta Marsh.	beaked hazelnut
Crataegus spp. L.	hawthorn
Dirca palustris L.	leatherwood
Gaultheria hispidula R. Br.	creeping snowberry
G. procumbens L.	teaberry
Gaylussacia spp. HBK	huckleberry
Hamamelis virginiana L.	witch-hazel
Ilex montana (T. & G.) Gray	large-leaf holly
I. verticillata (L.) Gray	common winterberry
Kalmia angustifolia L.	sheep laurel
K. latifolia L.	mountain laurel
Ledum groenlandicum Oedr.	Labrador tea
Lonicera spp. L.	honeysuckle
Malus sylvestris (L.) Mill.	domestic apple
Mitchella repens L.	partridgeberry
Nemopanthus mucronata (L.) Trel.	mountain holly
Nyssa sylvatica Marsh.	blackgum
Parthenocissus quinquefolia (L.) Planch.	Virginia creeper
Physocarpus opulifolius (L.) Maxim.	ninebark
Prunus spp. L.	cherry, plum
P. virginiana L.	chokeberry
Quercus bicolor Willd.	swamp white oak
Q. ilicifolia Wangenh.	bear (scrub) oak
Rhamnus spp. L.	buckthorn
Rhododendron spp. L.	rhododendron, azalea
Rhus glabra L.	smooth sumac
R. radicans L.	poison ivy
R. typhina L.	staghorn sumac
Ribes spp. L.	currant, gooseberry
Rosa spp. L.	rose

Rubus spp. L.	briers, brambles
Sambucus canadensis L.	American elder
S. pubens Michx.	red-berried elder
Sassafras albidum (Nutt.) Nees	sassafras
Smilax spp. L.	greenbrier
Sorbus americana Marsh.	American mountain ash
Spirea spp. L.	spirea
Staphylea trifolia L.	American bladdernut
Tilia spp. L.	basswood
Ulmus spp. L.	elm
Vaccinium spp. L.	blueberry
Viburnum spp. L.	viburnum
V. acerifolium L.	maple-leaf viburnum
V. alnifolium Marsh.	hobblebush viburnum
V. cassinoides	wild raisin
V. dentatum	arrowwood
V. lentago L.	nannyberry
V. prunifolium L.	blackhaw
V. trilobum Marsh	American crawberry bush
Vitis spp. L.	grape
Zanthoxylum americanum Mill.	common prickly ash

[a] Names according to:

Little, Elbert L., Jr. Checklist of United States trees (native and naturalized). Agric. Handb. 541. Washington, DC: U.S. Department of Agriculture, Forest Service; 1979. 375 p.

Symonds, George W.D. The shrub identification book. New York: William Morrow & Co; 1963. 379 p.

Percent density[a] and frequency[b] of shrubs, saplings, and seedlings, by species and geographic unit, Maine, 1982

Species	Washington County		Aroostook County		Penobscot County		Hancock County		Piscataquis County	
	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency
Balsam fir	10.1	72.3	13.2	72.1	13.5	72.1	8.5	73.9	15.3	70.9
Juniper	t[c]	.7	.0	.0	2.4	.5	t	1.1	.0	.0
Tamarack	.2	5.0	.1	2.0	.1	3.4	.1	1.1	t	.9
White spruce	.1	3.5	.4	10.7	.2	8.3	.1	3.4	.4	10.3
Black spruce	1.0	6.4	.9	6.6	.5	3.9	.8	5.7	.1	3.8
Red spruce	2.6	48.9	1.9	30.7	2.1	33.8	3.4	52.3	5.5	53.8
Jack pine	.0	.0	.0	.0	.0	.0	t	1.1	.0	.0
Red pine	t	1.4	t	.2	t	.5	.0	.0	.0	.0
Pitch pine	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Eastern white pine	.2	6.4	.1	2.4	.6	14.7	.2	5.7	.2	6.8
Canada yew	.0	.0	t	.4	.0	.0	.0	.0	.0	.0
Northern white-cedar	.7	17.0	3.3	22.6	3.1	24.5	1.6	15.9	1.8	15.0
Eastern hemlock	.6	12.8	.2	3.5	2.5	24.0	.3	10.2	.2	4.3
Striped maple	1.2	14.2	2.3	27.4	3.3	28.4	.6	9.1	4.7	41.5
Red maple	2.7	45.4	5.0	45.8	4.5	55.4	1.4	36.4	6.3	52.1
Silver maple	.0	.0	t	.2	.0	.0	.0	.0	.1	.4
Sugar maple	.7	8.5	5.7	32.2	2.9	19.6	.1	3.4	7.2	32.1
Mountain maple	.1	2.1	3.6	27.9	.8	9.8	.2	3.4	1.6	18.4
Ailanthus	t	.7	.0	.0	.0	.0	.0	.0	.0	.0
Alder	4.4	19.1	2.0	9.6	.7	3.9	1.5	10.2	4.6	9.8
Speckled alder	1.8	8.5	2.1	9.9	4.3	20.1	1.3	10.2	1.9	9.4
Serviceberry	.1	2.1	.2	3.5	.3	2.5	.1	2.3	t	1.3
Bog rosemary	.0	.0	.2	.2	t	.5	.0	.0	.1	.4
Evergreen bearberry	t	.7	t	.2	t	.5	.0	.0	.0	.0
Black chokecherry	t	.7	.0	.0	.0	.0	.0	.0	.0	.0
Yellow birch	1.8	20.6	2.5	32.7	2.4	29.4	2.3	11.4	3.3	38.0
Sweet (Black) birch	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Paper birch	1.6	28.4	1.3	18.2	1.0	17.2	.7	12.5	1.7	17.1
Gray birch	.6	10.6	t	.2	.6	11.3	.3	4.5	t	.9
American hornbeam	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Shagbark hickory	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
American bittersweet	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
New Jersey tea	.0	.0	t	.4	.0	.0	.0	.0	.0	.0
Purple clematis	.0	.0	t	.4	t	.5	t	1.1	.0	.0
Sweetfern	2.3	4.3	.0	.0	.5	1.5	2.8	4.5	.0	.0
Flowering dogwood	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Alternate-leaf dogwood	t	.7	t	1.1	t	1.0	.0	.0	t	.4
Silky dogwood	t	.7	.4	3.7	t	.5	t	2.3	.0	.0
Roundleaf dogwood	.0	.0	.3	1.3	.1	1.0	.0	.0	.1	.9
Panicled dogwood	t	.7	.0	.0	t	.5	.0	.0	t	.4
Gray dogwood	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0
Red-osier dogwood	.1	.7	2.2	6.1	.5	2.9	.1	1.1	.5	3.8

(continued)

Percent density[a] and frequency[b] of shrubs, saplings, and seedlings, by species and geographic unit, Maine, 1982

Species	Washington County		Aroostook County		Penobscot County		Hancock County		Piscataquis County	
	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency
Bunchberry	t	61.0	t	58.3	t	52.9	t	48.9	t	51.7
Hawthorn	.0	.0	t	.4	.1	1.0	.0	.0	.0	.0
American hazelnut	.0	.7	1.1	10.7	t	.5	t	1.1	.7	6.0
Beaked hazelnut	.1	2.1	1.9	11.2	.9	7.8	.0	.0	.4	4.7
Leatherwood	.0	.0	.0	.0	t	.5	.0	.0	.0	.0
American beech	1.0	11.3	2.4	18.4	3.1	26.0	.8	13.6	2.1	26.9
White ash	.1	4.3	.3	4.8	.8	12.7	.1	4.5	.8	7.7
Black ash	.2	7.8	.4	5.7	.6	6.9	.2	2.3	.4	8.1
Green ash	.0	.0	t	1.3	t	1.0	.0	.0	t	.4
Creeping snowberry	t	14.2	t	15.4	t	19.6	t	14.8	t	20.1
Teaberry	t	16.3	t	.9	t	17.6	t	21.6	t	4.7
Huckleberry	t	1.4	t	.4	.0	.0	.1	1.0	.0	.0
Witch-hazel	t	.7	t	.4	t	.5	.0	.0	.2	1.3
Large-leaf holly	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Common winterberry	.1	.7	.0	.0	1.1	3.4	.1	1.1	t	.9
Sheep laurel	13.8	17.7	2.8	5.0	6.3	9.3	8.0	15.9	.5	4.3
Mountain laurel	.0	.0	t	.2	.0	.0	.0	.0	t	.4
Labrador tea	5.2	3.5	.3	.4	4.3	4.9	.7	2.3	.9	1.7
Bush honeysuckle	.3	7.8	.8	9.4	.7	9.8	.3	4.5	.8	12.0
Vine honeysuckle	.0	.0	t	.2	.0	.0	.0	.0	.0	.0
Apple	.0	.0	t	.2	t	.5	t	1.1	.0	.0
Domestic apple	.0	.0	t	.2	.0	.0	.0	.0	.0	.0
Partidgeberry	t	7.8	t	9.9	t	13.7	t	6.8	t	13.2
Mountain holly	t	.7	t	.7	.2	2.5	t	2.3	.0	.0
Blackgum	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Eastern hophornbeam	.1	2.1	.1	1.5	.4	8.3	.2	2.3	.1	1.7
Virginia creeper	.0	.0	.0	.0	t	.5	.0	.0	.0	.0
Ninebark	.0	.0	.1	1.3	.0	.0	t	1.1	.1	.4
Balsam poplar	.1	2.1	1.1	5.9	.1	2.5	.1	1.1	t	1.7
Bigtooth aspen	.2	7.8	t	.7	.2	4.9	t	2.3	.1	.9
Quaking aspen	1.6	21.3	1.4	11.4	1.3	13.2	.7	10.2	.5	8.1
Cherry, plum	.0	.0	.3	2.6	t	.5	.0	.0	t	.4
Pin (Fire) cherry	.5	6.4	.4	4.6	.2	3.9	.1	2.3	.6	9.0
Black cherry	.1	3.5	.2	1.5	.2	2.0	.3	6.8	.6	6.4
Chokecherry	t	.7	.3	3.5	.4	4.9	.2	2.3	.1	2.6
White oak	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Swamp white oak	.0	.0	.0	.0	t	.5	.0	.0	.0	.0
Bear (Scrub) oak	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Northern red oak	t	1.4	.0	.0	t	2.0	t	1.1	t	1.3
Black oak	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Buckthorn	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Rhododendron	.0	.0	.0	.0	t	1.0	.0	.0	t	.4

(continued)

Percent density[a] and frequency[b] of shrubs, saplings, and seedlings, by species and geographic unit, Maine, 1982

Species	Washington County		Aroostook County		Penobscot County		Hancock County		Piscataquis County	
	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency
Azalea	5.5	3.5	.2	.2	1.3	2.5	2.6	1.1	.0	.0
Smooth sumac	.0	.0	.0	.0	.0	.0	.0	.0	t	.9
Staghorn sumac	.0	.0	t	.2	t	.5	.0	.0	t	.4
Poison ivy	.0	.0	.0	.0	t	1.0	.0	.0	t	.4
Currant, gooseberry	.2	4.3	4.7	15.1	.3	4.4	.4	2.3	1.5	8.1
Rose	.0	.0	.0	.0	t	.5	1.0	3.4	.2	.9
Briers, brambles	13.2	34.0	26.2	40.1	16.5	31.9	7.9	26.1	25.7	36.8
Willow	.7	5.7	.8	7.9	.3	3.9	.0	.0	.1	2.6
Black willow	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
American elder	.0	.0	.1	1.8	.1	2.0	.0	.0	.0	.0
Red-berried elder	.1	.7	.1	1.8	.0	.0	.0	.0	.2	2.1
Sassafras	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Greenbrier	t	.7	.0	.0	.0	.0	.0	.0	t	.4
American mountain ash	.0	.0	.2	2.9	t	1.0	.0	.0	.2	3.0
Spirea	6.4	15.6	.5	.7	3.3	11.8	3.6	13.6	.6	2.1
Basswood	.0	.0	.0	.0	t	.5	.0	.0	.0	.0
American basswood	.0	.0	t	.2	.1	1.0	.0	.0	.0	.0
Elm	.0	.0	t	.2	t	.5	.0	.0	t	.4
American elm	.0	.0	t	.4	.2	1.0	.0	.0	.0	.0
Slippery elm	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
American cranberry bush	t	.7	t	.2	t	2.5	t	2.3	t	.4
American bladdernut	.0	.0	t	.9	t	.5	.0	.0	.0	.0
Blueberry	5.2	17.7	.4	4.2	3.8	13.2	42.2	29.5	1.1	8.1
Viburnum	.2	3.5	.5	3.5	.5	4.4	.1	2.3	.2	3.8
Maple-leaf viburnum	.0	.0	.2	1.1	.5	1.5	.0	.0	.3	3.4
Hobblebush viburnum	.3	4.3	2.6	12.7	.2	5.9	.0	.0	2.4	13.7
Wild raisin	1.9	9.2	.1	2.2	.5	3.9	.0	.0	.1	.9
Arrowwood	.0	.0	.0	.0	.1	1.5	.3	2.3	.1	.4
Nannyberry	t	1.4	.2	1.1	.2	1.5	1.0	13.6	.2	2.1
Blackhaw	.1	.7	.0	.0	.0	.0	.0	.0	.0	.0
Grape	.0	.0	t	.2	.0	.0	.0	.0	t	.4
Common prickly ash	.6	1.4	.0	.0	.0	.0	.0	.0	.0	.0
Unknown vine	t	2.1	t	.4	.0	.0	.0	.0	t	.9
Unknown dwarf shrub	t	4.3	t	11.2	t	12.7	t	10.2	t	2.6
Unknown deciduous shrub	7.3	24.8	.6	8.1	2.8	15.7	2.0	13.6	1.8	6.0
Unknown evergreen shrub	1.7	2.8	.2	1.1	1.2	1.5	.1	1.1	.7	1.3
Unknown tree	t	.7	.3	2.9	t	1.5	.6	11.4	.1	2.1

(continued)

Percent density[a] and frequency[b] of shrubs, saplings, and seedlings, by species and geographic unit, Maine, 1982

Species	Capital Region		Somerset County		Casco Bay		Western Maine		All Units		Importance value[d]
	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	
Balsam fir	8.3	60.3	12.9	69.0	4.1	29.3	12.5	69.0	11.9	63.9	75.8
Juniper	4.7	4.7	.0	.0	5.1	8.3	.0	.0	.8	1.9	2.8
Tamarack	t	.7	t	.4	t	.3	t	.5	.1	1.4	1.5
White spruce	.1	2.4	.2	6.2	.0	.0	.1	1.9	.2	5.7	5.9
Black spruce	.1	.3	.6	4.0	t	.3	.5	.9	.6	3.4	4.0
Red spruce	.8	15.5	3.5	40.7	.9	5.7	2.2	26.9	2.8	30.7	33.4
Jack pine	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Red pine	t	.3	t	.4	t	1.3	.0	.0	t	.5	.5
Pitch pine	.0	.0	.0	.0	t	.3	.0	.0	.0	.0	.0
Eastern white pine	.6	14.8	.2	4.9	2.0	30.3	.3	8.8	.3	10.9	11.3
Canadian yew	.0	.0	.0	.0	.1	1.3	.0	.0	t	.3	.3
Northern white-cedar	.8	6.7	1.3	12.8	.2	.7	.2	2.8	1.7	13.1	14.8
Eastern hemlock	.7	12.8	.2	5.3	2.7	28.0	.6	7.4	.8	11.7	12.4
Striped maple	1.6	7.1	4.3	37.6	.4	5.3	8.1	44.0	3.2	24.3	27.5
Red maple	4.7	49.5	6.3	50.9	7.4	60.3	6.1	51.4	5.0	50.6	55.6
Silver maple	t	.3	.0	.0	.0	.0	t	.5	t	.2	.2
Sugar maple	.8	13.8	7.4	34.5	1.2	11.7	5.8	32.9	4.3	23.2	27.5
Mountain maple	.3	4.4	3.6	25.2	.1	.7	3.9	18.1	1.9	14.2	16.1
Ailanthus	.0	.0	.0	.0	.0	.0	t	.5	t	.1	.1
Alder	2.6	9.1	1.2	4.4	1.7	9.0	1.1	3.2	2.4	8.4	10.8
Speckled alder	2.5	10.4	3.2	11.9	1.8	8.0	1.7	9.3	2.4	10.7	13.0
Serviceberry	.1	1.0	t	1.3	t	.7	.3	4.6	.1	2.2	2.3
Bog rosemary	.1	.3	.0	.0	.0	.0	.0	.0	.1	.2	.2
Evergreen bearberry	t	.3	t	.4	t	.3	.0	.0	t	.3	.3
Black chokecherry	.0	.0	t	.4	.9	1.7	.0	.0	.1	.3	.4
Yellow birch	.7	9.8	2.5	34.5	.5	6.7	2.3	22.7	2.3	23.7	26.0
Sweet (Black) birch	.0	.0	.0	.0	.2	3.0	.0	.0	t	.4	.4
Paper birch	2.0	22.2	2.7	26.5	2.1	23.0	3.7	35.2	1.8	22.2	24.0
Gray birch	1.6	17.8	t	1.8	2.6	19.0	.3	5.1	.5	7.9	8.3
American hornbeam	.1	1.3	.1	.4	.1	1.3	.0	.0	t	.4	.4
Shagbark hickory	.0	.0	.0	.0	.1	1.3	.0	.0	t	.2	.2
American bittersweet	t	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
New Jersey tea	.0	.0	.0	.0	.0	.0	.0	.0	t	.1	.1
Purple clematis	t	.3	.0	.0	.0	.0	.0	.0	t	.2	.2
Sweetfern	.2	1.0	.0	.0	2.1	6.0	.1	.9	.7	1.7	2.3
Flowering dogwood	t	.3	t	.4	.1	.7	.0	.0	t	.2	.2
Alternate-leaf dogwood	.1	2.4	.1	1.8	.3	1.7	.0	.9	.1	1.2	1.3
Silky dogwood	.3	6.4	.1	1.8	t	1.0	.0	.0	.1	2.2	2.3
Roundleaf dogwood	.0	.0	.0	.0	t	.3	.0	.0	.1	.5	.6
Panicled dogwood	.1	.3	.3	.9	.1	.7	.0	.0	.1	.4	.4
Gray dogwood	t	.7	t	.4	.0	.0	t	.5	t	.3	.3
Red-osier dogwood	.5	3.0	.3	1.8	t	.7	.0	.0	.7	2.8	3.5

(continued)

Percent density[a] and frequency[b] of shrubs, saplings, and seedlings, by species and geographic unit, Maine, 1982

Species	Capital Region		Somerset County		Casco Bay		Western Maine		All Units		Importance value[d]
	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	
Bunchberry	t	20.2	t	48.7	t	19.3	t	32.9	t	42.7	42.7
Hawthorn	.2	2.0	.0	.0	t	1.0	.0	.0	t	.6	.6
American hazelnut	.2	1.3	.9	5.3	.3	1.7	.0	.0	.5	4.0	4.5
Beaked hazelnut	2.2	15.8	1.2	6.2	2.2	7.3	2.6	8.8	1.2	8.5	9.7
Leatherwood	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
American beech	1.9	19.9	2.0	21.2	1.5	20.7	2.9	24.5	2.1	20.8	22.9
White ash	2.1	21.9	.6	8.4	1.7	19.7	1.5	14.8	.7	11.6	12.3
Black ash	.1	2.7	.2	5.3	.1	1.7	.2	2.8	.3	4.8	5.1
Green ash	1.3	8.1	.0	.0	t	.3	.0	.0	.1	1.6	1.7
Creeping snowberry	t	1.7	t	8.8	t	1.0	t	6.9	t	10.8	10.8
Teaberry	t	17.2	t	2.2	t	49.0	t	9.7	t	14.7	14.7
Huckleberry	.2	.7	.0	.0	.7	1.0	.0	.0	.1	.5	.5
Witch-hazel	.5	4.0	t	1.3	2.4	16.7	.6	4.6	.3	3.8	4.1
Large-leaf holly	.0	.0	.0	.0	t	.3	.1	.5	t	.1	.1
Common winterberry	.6	4.0	.0	.4	2.1	4.0	.1	.5	.3	1.7	2.0
Sheep laurel	1.7	1.3	1.9	3.5	1.8	14.3	.7	3.2	4.2	7.1	11.3
Mountain laurel	.0	.0	.0	.0	.1	.3	t	.5	t	.2	.2
Labrador tea	.2	.3	.5	1.3	.1	.7	t	.5	1.5	1.4	2.9
Bush honeysuckle	.7	4.0	1.0	9.7	.3	2.7	.4	6.0	.6	7.4	8.1
Vine honeysuckle	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Apple	.1	3.0	t	.4	.1	2.0	t	.5	t	.9	.9
Domestic apple	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
Partidgeberry	t	11.1	t	4.0	t	21.7	t	4.6	t	11.0	11.0
Mountain holly	.1	.3	.1	.4	.3	.7	.1	.9	.1	.8	.9
Blackgum	.0	.0	.0	.0	t	.3	.0	.0	.0	.0	.0
Eastern hophornbeam	.3	6.1	.1	1.8	.5	7.0	.4	4.6	.2	4.0	4.2
Virginia creeper	t	1.0	.0	.0	t	.7	t	.5	t	.3	.3
Ninebark	.0	.0	t	.9	.0	.0	.0	.0	t	.5	.5
Balsam poplar	.0	.0	.1	1.8	t	.7	.0	.0	.3	2.1	2.4
Bigtooth aspen	.4	4.7	.1	.9	.4	3.3	.4	3.2	.2	2.8	3.0
Quaking aspen	1.6	16.8	.9	7.5	1.2	12.7	.5	9.7	1.1	12.2	13.2
Cherry, plum	.3	3.0	.7	2.7	.1	.3	.1	.5	.2	1.4	1.6
Pin (Fire) cherry	1.4	14.1	.8	7.5	1.0	8.0	1.6	12.5	.7	7.9	8.6
Black cherry	1.3	13.1	.2	2.2	1.6	14.3	.3	6.0	.4	6.3	6.7
Chokecherry	1.4	7.7	.2	2.2	.1	.7	.8	2.8	.3	3.3	3.6
White oak	t	.7	.0	.0	.5	7.0	.3	.9	.1	1.2	1.2
Swamp white oak	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
Bear (Scrub) oak	.0	.0	.0	.0	1.7	1.7	.0	.0	.1	.2	.3
Northern red oak	1.4	22.9	.1	1.3	2.8	42.3	.9	9.3	.4	10.5	10.9
Black oak	.0	.0	.0	.0	.1	2.7	.0	.0	t	.4	.4
Buckthorn	.0	.0	.0	.0	t	.7	.0	.0	t	.1	.1
Rhododendron	.0	.0	.0	.0	.0	.0	.0	.0	t	.1	.1

(continued)

Percent density[a] and frequency[b] of shrubs, saplings, and seedlings, by species and geographic unit, Maine, 1982

Species	Capital Region		Somerset County		Casco Bay		Western Maine		All Units		Importance value[d]
	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	Density	Frequency	
Azalea	t	.3	.0	.0	.0	.0	.0	.0	1.1	.6	1.7
Smooth sumac	.0	.0	t	1.3	.0	.0	.0	.0	t	.2	.2
Staghorn sumac	.1	2.0	t	.4	t	.3	.1	.9	t	.6	.6
Poison ivy	t	3.4	.0	.0	t	1.3	.0	.0	t	.8	.8
Currant, gooseberry	.7	3.7	1.9	10.6	t	.7	2.3	9.3	1.8	7.5	9.3
Rose	.1	1.3	.0	.0	.8	.3	.0	.0	.1	.5	.7
Briers, brambles	19.3	35.7	26.7	40.7	12.0	29.0	15.3	21.8	19.9	34.1	54.0
Willow	.1	2.4	t	.9	.9	3.0	t	.9	.4	3.6	4.0
Black willow	.0	.0	.0	.0	.1	.3	t	.5	t	.1	.1
American elder	.1	1.7	.0	.0	t	.3	.2	3.7	.1	1.2	1.3
Red-berried elder	.0	.0	.1	3.1	t	.3	.2	3.2	.1	1.3	1.4
Sassafras	.0	.0	.0	.0	.1	1.0	.0	.0	t	.1	.1
Greenbrier	.0	.0	.0	.0	t	.3	.0	.0	t	.1	.1
American mountain ash	.1	.3	t	.4	.0	.0	.6	6.0	.1	1.7	1.8
Spirea	9.5	24.9	.2	1.3	5.7	19.7	.2	3.2	2.5	9.7	12.2
Basswood	.1	1.7	.0	.0	.1	1.0	t	.5	t	.5	.5
American basswood	.1	1.7	t	.4	t	1.0	.1	1.4	t	.7	.7
Elm	.0	.0	.0	.0	.0	.0	.0	.0	t	.1	.1
American elm	.1	1.7	.1	1.8	t	1.0	t	.5	t	.8	.8
Slippery elm	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	.1
American cranberry	.0	.0	t	.4	.0	.0	.0	.0	t	.5	.5
American bladdernut	.0	.0	.0	.0	.0	.0	.2	.9	t	.3	.3
Blueberry	2.6	7.7	.7	4.9	6.9	19.3	2.2	9.3	5.0	10.5	15.6
Viburnum	.3	4.4	.2	2.2	.9	5.3	.1	1.9	.3	3.7	4.0
Maple-leaf viburnum	.3	2.4	.3	1.3	.3	2.0	.3	1.9	.2	1.7	1.9
Hobblebush viburnum	t	.7	4.3	23.9	.2	1.3	9.6	28.2	2.4	10.6	13.0
Wild raisin	.4	4.4	.4	2.7	1.3	9.0	1.1	6.0	.6	4.3	4.9
Arrowwood	3.2	15.8	.1	1.3	.7	5.0	.4	1.4	.3	3.4	3.7
Nannyberry	.1	.3	.1	.9	.9	2.7	.1	1.4	.2	1.9	2.1
Blackhaw	.0	.0	t	.4	.0	.0	.0	.0	t	.1	.1
Grape	t	.3	.0	.0	t	.3	.0	.0	t	.2	.2
Common prickly ash	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2
Unknown vine	t	.7	t	.4	t	.3	.0	.0	t	.5	.5
Unknown dwarf shrub	t	3.0	t	8.4	t	5.3	t	1.9	t	6.8	6.8
Unknown deciduous shrub	6.4	22.6	1.0	8.0	6.6	28.3	1.9	11.6	2.8	15.0	17.9
Unknown evergreen shrub	1.8	2.0	.3	3.5	1.6	.7	.5	2.3	.8	1.7	2.5
Unknown tree	.1	2.7	.4	5.8	.2	4.0	.1	1.4	.2	3.1	3.3

[a] The proportion of the estimated number of all stems.

[b] The proportion of all new ground plots where the species was recorded.

[c] t=Trace amount, less than 0.5 percent, or vine or dwarf shrub that is not counted in tally.

[d] Sum of proportional density and frequency.

Metric equivalents of units used in this report

1 acre = 4,046.86 square meters or 0.404686 hectares
1000 acres - 404.686 hectares
1,000,000 acres = 404,686 hectares
1 inch = 2.54 centimeters or 0.0254 meters
1 foot - 30.48 centimeters or 0.3048 meters
Breast height = 1.4 meters above ground level
1 mile = 1.609 kilometers

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Brooks, Robert T.; Frieswyk, Thomas S.; Ritter, Arthur. Forest Wildlife Habitat Statistics for Maine--1982. Resour. Bull. NE-96. Broomall, PA: U.S. Department of Agriculture, Forest Service; 1986. 146 p.

A statistical report on the first forest wildlife habitat survey of Maine (1982). Findings are displayed in 85 tables covering forest area, landscape patterns, mast potential, standing dead and cavity trees, and understory woody-stemmed vegetation. Data are presented at county and/or unit and state levels of resolution.

Keywords: Forest habitat survey, inventory, landscape pattern, snags, mast, browse.

Headquarters of the Northeastern Forest Experiment Station are in Broomall, Pa. Field laboratories are maintained at:

- Amherst, Massachusetts, in cooperation with the University of Massachusetts.
- Berea, Kentucky, in cooperation with Berea College.
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